

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19618	49986	A	19733	2	2296	HSAGQRSPSNDFQVLRGTELQH LLHAVVPGPWQEDVADAECA GRCGPLLLSRAFHYNVSSHGCQ LLPWTQHSPHSRLWHSGRCDLF QEKGEWGYMPTLRNGLEENFC RNPDPDGGPWCHTTDPAVRF QSCGIKSCRVAACVWCNGEEY RGAVDRTESGRECQRWDLQHP HQHPFEPGKFLDQGLDDNYCR NPDGSERPWCYTTDPQIEREFC DLPRCGSEAQPRQEATSVSCFR GKGEYRGTTANTTTAGVPCQR WDAQIPHQHRFTPEKYAC/KVR WAGGRALGRAAAGETGGG*SR A*GWRLAG*G*VERLLRDLREN FCWNLDGSEAPWCFTLRPGTR VGFCYQIRRCTDDVRPQDCYH GAGEQYRG\TV\SKTRKGVQCQ RWSAETPHKLQ*VPGAPGPAR ALTLGRHALMSGTRA WKWLR LSLPRFRSRRLGSRLTSEPHAQ LEENFC/RDPDGDSHGPPWCYTM DPRTPFDYCALRRCADDPQSIL DPPPDQVQFEKCGKRVDRLDQ RRSKLRVAGGHPGNSPWTVSL RNR*GTTACLPQRGAEVVSSV MPLGAGNLSLPPEVLARRWQV *HLSQESVPCPNSPLL*QGQHF CGGSLVKEQWILTARQCFSSICE PPLCLGTQSHPTFFPPQAS*QVS LGATD*ESQMT*QSFSPSHMPL TGYEVWLGTLFQNPQHGEPL

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19619	49987	A	19734	727	3012	PAPTHAHSAGQRSPLNDFQVLR GTELQHLLHAVVPGPWQEDVA DAEECAGRCGPLMDCRAFHYN VSSHGCQLLPWTQHSPHTRLRR SGRCDLFQKKDYVRTCIMNNG VGYRGTMATTVGGLPCQAWS HKFPNDHKYTPTLRNGLEENFC RNPDGDPGGPWCYTTDPAVRF QSCGIKSCREAACVWCNGEEY RGAVDRTESGRECQRWDLQHP HQHPFEPGKFLDQGLDDNYCR NPDGSERPWCYTTPDIQIEREFC DLPRCGSEAQPRQEATTVSCFR GKGEGYRGTTANTTTAGVPCQR WDAQIPHQHRFTPEKYACKDL RENFCRNPDGSEAPWCFTLRPG MRAAFCYQIRRCTDDVRPQDC YHGAGEQYRGTVSKTRKGVQC QRWSAETPHKPQFTFTSEPHAQ LEENFCRNPDGDSHGPWCYTM DPRTPFDYCALRRCADDQPPSIL DPP\DQVQFEKCGKRVDRLDQR CSKLRVAGGHPGNSPWTVSLR NWQGQHFCGGSLVKEQWILT AR\QCFSS\CHMPL\TGY*GMVG ATFFQNPQHGEPSL\QRVQ*AK MLCGPSGSQL\VLLKLSVTL N\HRVWALIILP\PEWYVVPVPGT KCEIAGWGET\KGTG\NDTVLN VALLNVISNQECNIKHRGRVRE SEMCTEG\LLAPVGACESDYG GP\LACFT\HNCWV\LEGIIIPN\R
19620	49988	A	19735	66	234	WCSAWHSWLPSPSGPAASYP PAACRSAPQWPDP*R*CPRTHR RRSPWRAPWHCP
19621	49989	A	19736	3	500	GRGGGGVRRCARPAPGRPPAA ARRRGDQRGGRGLGR\HVPKGT CCGICGRGFGRRETLKRHERIH TGEKPHQCPVCGKRFRESFHLS KHHVVHTRERPYKCELCGKVF GYPQSLTRHRQVHRLQLPCAL AGAAGLPSTQGTGACGPGAS GTSAGPTDGLSYACSD

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19622	49990	A	19737	899	2348	GRRRGGGGRCWRGCQSGPERF SCATCGQSFKHSW/DLVTHKYV HLMLLPPSCEAVAPRGWRRSC SCPECCRVCELSAA/RSATAR CFRRRSPSHAQAPGPQVPQDW RSPRARIRLPVGPVGMPAFPTSA SGKAWPSLRVSPHAFWKYHT SPPAMQPSGPLWASVPACAP*K NIPSPTIWQRLAFSGLGLPICWV ENHGPATSSQWLVS GPRSPHLL S/RAEHPFSRPLPRWVATAERQ RRPSGKRTNPPFASPAPPPGA/G PEVSVPPAGALPGEALGPARDL WPCSSWT*AGLPALG/DTGGGE APAP/AAAAEPSED TLYQCDCG/ TFFASAAALASHLEAHSGPATY GCGHCGALYAALAALEEHRRV SHGEGGGEEAATAAREREPAS GEPPSGSGRGKKIFGCSECEKLF RSPRDLERHVLVHTGEKPPFCL ECGKFFRHECYLKRHLLHGTE RPPFCHICGKG FITLSNLSRHLK LHRGMD
19623	49991	A	19738	2	358	
19624	49992	A	19739	635	2441	LKAIKRHPFFVTIDWNVSCMPQ SPPPFKPAVGRPEDTFHFDPEFT ARTPTGVCHSGSLYNAHHLFR GFSFVASSLIQEPSQDLHKVPV HPIVQVTVFACSGFTDGYEIKE DIGVGSYSVCKRCVHKATDTE YAVKVRQAC*VSSLVFPAGTG APGIGEYSGKLV SILCAQDSP HNLLPQRKVEKPSLSILVGESRS HVDKGQEV DILEMGMEFFFFIE FLVSPLATG*CFPMARSPCMGC SLSVCTAL*GQPLQGNTPTFKY QQVTWPQAKPPTPAVLSPETA NVTSPQEQRCLLKDRWLYPV VRNSSTRGPSEEIEILLRYGQHP NIITLKDVSGPRATASLVMELM RGGELLDRILRQRYFSEREASD VLCTITKTMDYLHSQGVGAMP GAAFNILYRDESGSPESIRVCDF GFAKQLRAGNLLMTPCYTAN FVAPEVSIPRLQTQACDIWSLGI LLYTMLAG*AVTSNRCHDTPEE ILARIGSGKYALSGGNWDSISD AAKVSTCPSVALDPHQRLTAM QVLKHPWVVNREYLSPNQLSR QDVHLVKVPAGAVRTEWWE WDLNRTQPAPRLEPVLSSNLAQ

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19625	49993	A	19740	144	1143	REAGRGCAGVGGRPRRRRK GAASRARLPFSLSIMDPSLLRER ELFKKRALSTPVVEKRSASSEIS SSSSISKKKKTKVE\HGGSSGSK QNSDHSNGSFNLKALSGSSGY KFGVLAK\VNMYMKTGTGIQRGD THPLTLDE\LDLDETQHLDIGLQQ KQWLMTEALVNNPKIEVIDGK YAFKPKYNVRDKKALLMLLD QHDQRGLGGILLEDIEEALPNS QK\AVKAE\GDQIPIC*SGPVRR KILFV\NDKSCQFSVG*RIFRKL WEECQLVDSHGTEEK\EEYLE ADRVFSSHARESG\PKKVGPYS RRKGKSPAFTRRKKPTFLRTSLT NHLAWNC
19626	49994	A	19741	677	1590	AHPHSPRRTLERQARISGAGRR SSPNAANRGSAPPSRRLASFCT AGSA\GRPA*SSPCSGPWTAVSA PRSPGPRGGGRPPSPGRRRPCCS VFSGGASPSSARVSSPSGSCSAS PPAAPAAWSLRGCGCWPG/VW EVHVNTGGDSVAAPAAWGSR AACGPNLGGCGSHPRAGRRAGH RCGHPWSPRPAPRPSCCGRSPR PGPPGASGCRPAPRPPTPASRS GRPCSWRRARAAGWPRGWG SSAGGCRRGSGRREWPCGTA RGSPAAGVSRWTAPCRHRRS DASASGTPARFPGAGRKGRTL WQ



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19627	49995	A	19742	754	2179	SKMSRLEAKKPSLCKSEPLTTE RVRTTLSVLKRIVTSCYGPSGR LKQLHNGFGGYVCTTSQSSALL SHLLVTHPILKILTASIQNHVSSF SDCGLFTAILCCNLIENVQRLGL TPTTVIRLNKHLKSLCISYLKSE TCGCRIPVDFSSQILLCLVRSIL TSKPACMLTRKETEHSVSLILR AFLLTIPENAEGHILGKSLIVPL KGQRVIDSTVLPGLIEMSEVQL MRLLPIKKSTALKVALFCTTLS GDTS*\PGEQTVVVSYGVSLEN AVLDQLNLGRQLSDHVDLVL CQKVIHPSLKQFLNMHPHIAIDR IGSDSD/VEPLDLKWTGTQPIGS LGSICPNSYGSVKDVCTAKFGS KHFFHLIPNEATICSLLCNRND TAWDELKLTCTALHVLQTL KEPWALLGGGCTETHLAAYIR HKTHNDPESILKDDECTQTELQ LIAEAFCSALESVVGSLHDDGG
19628	49996	A	19743	1	652	LMPKPGRDTTKKNFRPISLMN INAKILNKILANQIQHIKKLIN HDQVGFIQGMQGWFNHKSINV IHHIKRTNDKNHMIISIDAGKAF NKIQQCFMLKTLNKLNIHGVYL KIIRAIYD/KPPANIILNGEKLEA FPLKTGIRQG/CPLLRNIV/LEVL ARAIQKEIKGIQSGNEEVKLS LFADDMIVYLENPIVSAQNLLK LISNFSKVSQYKISVQ
19629	49997	A	19744	1	834	MGDFNTPLSTLDRSTRQKVNK DIQELNSALYQVDLDIYRTLHP KSTEYTFFSAPHHTYSKIDHIVG SKALLSKCKRTEITNCLSDHSA IKLELTIKKLTQNRSTTWKLNN LLLNDYWYKQPSSENKHLNAN KLENLEEMDKFLDTYTLPRLNQ EEVESLNRPIRSEIEAITNSLPT/ KKSPGPDGFTAIFYQ\MLEVLA RAIRQKEIKGIQLVKEEVKLSL FADDMIVYLENPIVSAQNLLKLI GNFSKVSQYKI/NVQKSQAFLY TNNRQTESQIM
19630	49998	B	19745	1	1521	
19631	49999	B	19746	1	1461	

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19632	50000	A	19747	1	2347	MELKTKARELHDECTSLSSRFD QLEERVSVMEDEMNMNLPK KSPGPDGFTAIFYQRYKEELVP FLLKLFQSIEKEGILPNSFYEPSII LIAKPGRDTTKKENFRPISLMNI NAKILNKMLANQIQQHIKKLIH HDQVGFIQMGQWGFNIRKSINV IQHINRTKDKNHMISIDA EKAF DKIQQHFM LKTLNKL VLEVLA RAIRQEKEIKGIQLGKEEVKVSL FADDMIVYLENPTVSAQNLLKL IGNFSKVSQYKINQKSQAFLY TNNRQTERQIMSELPFTIASKRI KYLGIQLTRDVKDLFKENNKPL LKEVKEDTNEWKNIPCSWVGRI NIVKMAILPKVIYRFNAIPKLP MTFFTELEKTTLKFIWNQKRAC IAKSIFSQKNKAGGITLPDFKLY YKATVTKTAWYWYQNRDIAQ WNRTEPSEIMLHIYNYLIFDKPE KNKQWGKDSL FNKWCWENWL AICRKVKLDPFLTPYTKMNSR WIKDLNVRPKTIKTLEENLGITI QDIGVGKDFMSKTPKAMATKA KIDKWDLIKLSFCTAKETTIRV NRQPTTWKIFATYSSDKGLISR IYNELKQIYKKKTNNPIKKWAK DVNRHFSKEDIYAAKKHMKKC SSSLAIREMQIKTTMRYHLTPV RMAIIKKS GNNRKIQ/GGIWCD RIL*R*TTCRVAKEIQSL*RRI/W KRLQRTLSIPVLDAV*PPMF*AS
19633	50001	A	19748	1	1818	

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19634	50002	A	19749	1	1725	MELKTKARELREECRSLRSRCD QLEERPNI RLIGVPESDGENGT KLENTLQDIIQENFPNLAKQVN VQIQEIQRTPQRYSLRRATPRHII VRFTKVEMKEKMLRAAREKGR VTLKGKPIRLTADLSAETLQAR REWGPIFNILKEKNFQPRISYPA KLSFISEGEIKSFTDKQMLRDFV TTRPALQELLKEALNMERNNRS WFEKINKIDRPLARVIKKKRE KNQIDAIKNDKEDITTNPTEIQT IREYYKHLYPNKENLEEMDTF LDTYTFPRLNQEEVESLNTSITG SEIVAIIS/NSIPTKKSPGPDGSTA EFYQM LEVLARAIQEKEIKGI QLGKEEVKLSLFADDMIVYLEN PIVSAQNLLKLISNFSKVSGYKI NVQKSQAFLYTNNRQTESQIMS ELPFTIASKRIKCLGIQLTRDVK DLFKENYKPLLKEIKEDTNKW KNIPCSWVGRINIVKMAILPKVI YRFNAIPIKLPMTFFTDLKTTL NFIWNQKRARITKSILSQKNKA GGITLPDFKLYYTATVTKTAW YWYQNRWYQNRDIDQWN RTEPSEITPHVYNYLIF

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19635	50003	A	19750	1	1719	MHNTDGNRFLSHWGYRQALSI SKPASASLHPSSKTKPLGTQSKT VVAKRNREHGKKERSSSPAME QSWMENDFDELREEGFRRSNY SELREDIQTGKEVENFEKNLE ECITRITNTEKCLKELMELKTK ARELREECRSLRSRCDQLEERR KQERSKIDTLTSQLKELEKQEQ THSKAGRRQEITKIRAELEIET QKTLQKINESRSWFFERINKIDR PLARLIKKKREKNQIDTIKNDK GDITDPTEIQTITIREYYKHL YA NKLENLEEMDTFLDTYTLPRLN QEEVESLNR PITGSEIVAIINSLP TKKSPGPDGFTAIFYQRYKEEL HINRAKDKNHMIISIDAEKAFD KIQPPFMLKTLNKL VLEVLARA IRQEKEIKGIQLGKEEVKLSLFA DDMIVYLENPIVSAQNLLKLLS NFSKVSGYKINVQKSQAFLYTN NRQTESQIMSELPFTIASKRIKY LGIQLTRDVKHLFKENYKPLLK EIKEDTNKWKNIPCSWV\GRINI VKMAILPKVIYRFNAVPIKLPM TFFTELEKTTLKFIWNQKRACIA KSILSQKNKAGGITLP

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19636	50004	A	19751	2	2133	WRRYQANGK*KNK/QKKAGV VILVSDKTDFKPTKIKRDKEGH YIMVKGSIQQEELTVLNIYAPN TGAPRFMKQVLRDLQRDLDPH TTIMGDFNTPLSTLDRSARQKV NKDIQELNSALHQADLINIYRIL HPKSTEYTFISAPHRYSKIDHI VGRKALLRKYKRTEIITDCLSD HSAIKLELRKIKLTQNSSTTWK LNNLLNDYWIHNKTKAEIKM CFETSENKDTTYQNLWDTCKA VCREKFIALNAHKKRQERSKID TLTSQLE/LEKQEQTHSKASRR KSRRNG*IPGHIHPPKTKPGRI* VPE*TNNRV*N*GNN**LTNQK KFRTRRIHSQILPEHSAGSSGQG NQAGERNKGYSIRKRGSIQVPV CR*HDCIFRKPHHLSPKSP*AVK QLQQSLRIQNQRAKITSSPIHQ* QTNREPHE*TFIHNCFKENKIP RNPTYKGCEGPIQGELQTTAQQ NKRGHKQMEEHSMLMDRKNQ YHENGSAQGNL*IQCHPHQAT NDFLHRIGKNYFKVHMEPKKSP HCQVNPKEQSWRHAT*LQ TILQGYSNQNSMVLVPKQTYRP MEKNRGLRNNTTHLRPSSL*QT *QKQEMGKGFPI**MVLGKLAS HM*KAETGSLPYTYKN*FKM D*RLKC*T*NHKNLRRKPRQYH SGHRHEQGLYV*NTKSNGNKS QN*QMGSN*TKELLHSCRNYH
19637	50005	A	19752	1	1314	

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19638	50006	A	19753	1	1998	MVKGSIQQEELTILHIYAPNTG APRFIKQVLSLDLQRDLDSHTLI MGDFNTPLSTLDRSMRQKVNK DTQELNSALHQAALIDIYRTFH PKSTEYTFFSAPHHTYSKIDHIV GSKALLNKCKRTEIITNYLS DHS AIKLELRRIKNTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKA\PL ARLIKKKREKNQID/TIKNDKGD ITTDPTETIQTIREYYKHL YANK LENLEEMDTFLDTYTLPRLNQE EVESLNRPI TGSEIVAIINSLPTK KSPGPDGFTAEFYQRYKEELVP FLLKLFQSIEKEGILPNSFYEASII LIPKPGRDTTKKENFRPISLMNI DAKILNKILANRIQQHIKKLIHH DQVGFIPGMQGWFNIRKSINVI QHINRAKDKNHMISIDA EKAF DKIQQPFMLKTLNKL VLEV LAR AIRQEKDIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLIS KFSKVS GYKIHVLKSQAFLYTN NRQTESQIMREL PFTIASKRIKY LGIQLTRDV KDLFKENYKPLL N EIKEDTNK WKNIPCSWIGRINIM RRSSAPSGCHLCPPSLYLHSPN VELKQASFSVAGFQWKLGITAP TQPRGVGDDFVTSTSPPSLDMF PRLKGAENSPHRSGRD
19639	50007	A	19754	1	3288	
19640	50008	A	19755	1	1293	
19641	50009	A	19756	264	490	VYLLIVLAVLYTN NRQTESQIM SELPFTIASKRIKYLGIQL\TRDV KDLFKDNYIPLLKEI*EDTSKW KSIPCSWI
19642	50010	A	19757	1	1845	
19643	50011	A	19758	1	3144	MGDFNTPLSTLDRSSRQKV NK DTQELNSTLHHADLIDIYRTLHP KSTEYTFFSAPHHTYSKIDHVV GSKALLSKCKRTEITNCLSDHS AIKPELRKKLTQNRSTTWKLN NLLLNDYWVHNKMKAEIKMFF ETNENKDTTYQNLWDTFKAVS RGKFIALNAHKRKQKRCKIDTL ASQLKEVEKQE QTHSKASRRQ EITKIRAE LKEIETQKTLQKINES RSWFLERINKIDRPLARLIK KKR EKNQIDVIKNDK
19644	50012	B	19759	1	1743	

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19645	50013	A	19760	1	1500	MGKKQSRKTENSKNQASPPPE ECSSSPAMEQSWMENDFHEL EEGFRSNFSELKEDVRTHSKEA KNLEKRLDEWLTGITSVEKSLN DLMELKTMARELCDKCTSFSS KFHQLEERVSVTEDQMNMKS WFFEKINKIDRLLARLIKKKRE KNQIEAIKNDKGDITTDPTIEQT TIREYYKHLTYTNKLENLEEMDT FTGTYTLPRLNQEEIESLNKPIT GSEIEAIINSPLTKKSPGPDGFTA EFYQRYKEELLFNIRKLNLIQL INRTQDP*PPL/VLSRIGRRVHQ YLENPIVSAQNLLKLKSNFSKV SGYKINVQKSQAFLYIKKRQTE SQIMSELPFTIASKRIKYLGIQLI RDVKDLFKENYKPLLNEIKEGT NKWKNIPCSWIGRINIVKMAILP KVIYRFNAIPIKLPMTFFTELEKI TLKFIWNQERACIAKTILSKKN KAGGIMLPDFKLYYKATVVIKT AWDWYQNRDLDQWNRTEPSEI TPHIYNHLIF
19646	50014	A	19761	1	3192	
19647	50015	B	19762	180	190	
19648	50016	A	19763	1	3212	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRIKNLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDDTYQNLWDTFKAVCRGK FIALNAHKRKQERSKIDTLTSQL KELEKQEQTTHSKASRRQEITKIR AELKEIETQ

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19649	50017	A	19764	1	2607	MTNHCFKRQFQKHEMLLKEDC EPGDSSFILGEQHWENMLCEPK QHPPQQGEGRAAGQAQNPLNT DVSPGAGAKESEEKIYQHLNYT YFKQKCMSCSGFTFSSYAMHW VHQAPGKGLEWVSAIGAGGGT YYADSVKGRFTISRDNANKSLY LQMNSLRAEDMAVYYCARDTI DAYGDEKPSTIVTRIRVLRKLR DTCHMGEADRTFLSPIAQHPPV CHVETHLGMQVANSSEDELV WSKWDVDVKFILCCAKYHREQ LQESALDLKSLHCPSASPALFL ATPSQPVLTTGPGSASSQGGAE MGAHFLVQLVQSGAETRESFD PALPEMETQRTDEQCRAVHPGP QKERHGNMSPLLMKGSSSPVP SGPGEEPShrepVSFICGRILLT LLGDCWGEAWTQGDVLQ PSDRASFLAMGVNTTVQQVGD LSGYFPNSVGKACKREFHTLT PLAHTSSTTHETFGAQCEVQL VESGGGLVQPGGSLRLSCPDSG FTFSNHYMSWVRQAPGKGLEW ISYISGDSGYTNYADSVKGRFTI SRDNANNSPYLQMNSLRAEDT AVYYCVKHTARGKLEKQEQT SKASRRQEITKIRAEKETETQK TLQKINESRSWFFEKIYKIDRPL ARLIKKKREKNQIDAIGNKGD ITTDPTIEIQTTLREYYKHLN KLENLEGMDKFLDAYTLPRLN
19650	50018	A	19765	1	1251	
19651	50019	A	19766	1099	4113	
19652	50020	A	19767	1	2628	
19653	50021	B	19768	1	2970	
19654	50022	B	19769	1	4142	
19655	50023	A	19770	1	4091	MHIVVETALSASWQNKAKPPA RVLLQVVPNVWFLVAVVWEL YPSLDLMDRSIECSSSPATEQS WTENDYDKLREEGFRRSNYSE LQEDIQTKGKDVENFEKNLEEC ITRITNTQKCLKELMELKTKAR ELREECRSLRSRCDQLEERSV MEDEMNMKQEGKFREKRIKR NEQSLQEIWDYVVKRPNLRLIGV PESDGENGTKLKNTLQDIIQENF PNLARQAKVQIQEIQRMPQRY LTRATPRHIVRFTKVE



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19656	50024	A	19771	156	450	LQVEIYKTVKMHCIWHKQMV SYFFYQKKNELSNFEEVFLKTA SGMFFSTVGCHPTRCGEFKNN PDLYLKELLNLAENNKGVVA IGECGLDFDRLQ
19657	50025	A	19772	173	1009	LHGGNLQDSKDALHLAQTNG MFFSTVG\IHPTRCG*/YFEKNNP DLYLKGVAKIFA/EKTLKGKLW QLGEC\GLDFD\RLQFCPKDTQL KYFEKQFE\LSEQTKLPMFLHC RNSHGWNFLDIMKRNDRDRCVG GVVHSFDGTKEAAS\SLIDL DLY IGFNG/CASPENLEANLGRFWK SI\PSEKLMIEA\DAPIWCGVKST HA\SKYIRTAFPS\KKKWESGH CLKDRNEPCHIIQILEIMSAVRD EDPLELANTLYNNTIKVFFSWN IIGICLPLSIMYVKFHSKTS
19658	50026	A	19773	16	1558	QEHLQRASPRLLQLLPPLPPPP PPAFGGSLSSLGSRMSRQVVRS SKFRHVFGQPAKADQ\CYEDVR VSQTTWDSGFWC/SVNP*VLW ALICEASGGGAFLVPLGKIWT LWDKNAPTGCGRSHS/APVLDIA WCPHNDNVIA\SGSED\CTVMV WEIPDGGLMLPLREPVVTLLEG HTKRVG\IVAWHTTAQNVLLSA GCDNVIMVWDVGP\GAAMLDT GPRGA/HPDANYRGDWEP\DG LICTSCRDKRVRIEPRKGTVA EKDRPHEGTRPVRAVFVSEGKI LTTGFSRMSERQVALWDTKHL EESPV/SLRKLHTRNGVPVAFFG P\DTNIVYLRKG\SGPIRVFEIT SE\APFLHYL\SMFS\SKESQRG\ MGYMPKRGRKVNK\CEIAGFY KLHDGR/CVSPMPKPVPRKSDL FQEDLGPTPPRGPD\ALTA\EE WLGGRDVG\PLFISLKDGYVPP KSREL\RVNRGLDP\GRRR\AAP EASGTPSSDAVSRLEEEMRKLQ ATVQELQKRLDRLEETVQAKL
19659	50027	A	19774	229	475	

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19660	50028	A	19775	225	965	EWAWRSQRLRSEHSRADPTRSSC RSCGAKMSGEENPASKPTPVQ DVQGDGRWMSLHHRFVADSK\ DKSGSKKKNPPPEVVFIDSL VQLMHQCEIWRELFSPHLALN FGIGDGTQHVLWRLengele HIRP\KIVVVWVG/TPNNHGHTA EQGLLPRGQHPNPLREKNRQV NELGTGGTWLGHPRAHFLDAD PGFVHSDGTISHHDMYDYLHLS RLGYTPVCRALHSLLLRLLAQD QGQGAPLLEPAP
19661	50029	B	19776	691	1077	
19662	50030	A	19777	481	1308	PSVAFL*PSLHRYGHTGTAGPG WPCAAGS*AA/SSSRRLPSVLQ ASSNSSHRRCNSTPSGSAGQRR VRRAP*MASTTPGGTESGPKA RNAFRMRSTSAFCRGQ*QRPVP SSSSSRSSSRACAAGETASGDP RAQRQLRS*DESSSPSLDFRQA /PWPTAPCVKVSYSRRMFSGM SPWRSSDNKRNSSFLRKTGNS FSADLDTPPMPEVCLLPSLGY LVPPVAEVHMPVPAPILPSAGIR RKIQKAASAKQLPLFQMDDSF QHRVQGDTKK
19663	50031	C	19778	41	318	
19664	50032	A	19779	970	1193	INNHIRDSCWTCHCSC/QPPPPP LLPQPPP*LSAPRVIERKE*DRL/ CPGEQTSSPTSPRTQSAAAT QLSLPPP
19665	50033	A	19780	1	494	MDGRVMAAGGRQAPGQKKAG TSEAPPSSQEWPEAWYGCLQQ KLRAVYLVQSQPCTGPVLAPG AACPAAAASTPGCAQW/CGPR ACSPTQSSQLCAWFAFSSRCPD FCPNPPRPL*DPPSWPTDPADRC SPELTIRDSCWTCHCSCRRRHR RPCCRSRRPDSPRHG
19666	50034	C	19781	120	392	
19667	50035	A	19782	174	375	

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19668	50036	A	19783	33	1154	QFALCAGWWLCGRGGGRTPAT MSGFSTEERAVPFSLEYRVFLK NEKGQYISPFHDIPIYADKDVFH MIVVEVPRWSNAKMEIATKDP LNPIKQDVKKGKRLRYVA\NLFP\ YKGYIW\NYG\AFPTWEDPG\ HNDKTLGCGGLTMDP\IDVC* NWEKGVCARGEIIGVKVLG\IL AM\NDGGGTDWKVIAIN\DDP GCQPINNDI\NDVKRLK\PGYL* KLPVDWFR\RYKVPDGPENEF AFNAEFKDK\DFAM\DIHKSTPWT LGKALVT*ENRMGKGISCMT NFVLRAPFKVCILDAAQSPLWD ALPTHPCGICPCHSTQQTVDKG VPITQKNLMRFPLEYQADIA YIR VPSWMVLEVKVVAFSKAFKFV EPHPNLK
19669	50037	A	19784	1	612	VTQEDDIIIEHKPRTPRSPPLL APSPACQAFGEHSPGHPAIST GAGPRPSASFPHLSGLHREPP LNWSVCPGLVWSPKALDETH PFVQQFPHQATLEWGVFHRDV GRRWGRRLGNLQIGSEVARRR RVGGGGLQCRRLGVGASPGAD W**SG*EEACGGRWAA/GADG WGLGRPRELIGCRGWRRSLAA APGPQRPGFVSSTPRCRPRSG METQTPALRVQQDDLQFS
19670	50038	A	19785	1	951	MEEGISSQIGRRENECQKKCQ TLIKPSDLVRTHSYHENSMTETI LVIQLPPPGTAFDMWELQFKLI TQTFSHHNQLAQKTRREKRAR QEA\ERREKAERAARLAKEAKS ETSGPQIKELT\DEEAERLQLEID QKKDAENHEA\QLKNG\SLDSP GKQDTEEDEEEDEKDKGKLKP NLGNGEDLPNYRWTQTLSELD LAVPFCVNFRLKKGKDMVVDIQ RRHLRVGLKGQPA\NDGELYNE VKVESSWLIEDGKVVTVHLE KRGPADAHSRALSVLQASRL GVHCVPGTVPNAEIQVVDVFIY FWQSVIPQASPISE

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19671	50039	A	19786	87	1191	SAELRDVDRSAARLGGEQEEER FDGMLLAMAAQ\QHEGGVQELV NTFFSFLRRKTDFFIGGEEGTAE KLITQTF\SHHNQLAQKTRREK ESPRRAE\RRKAERAARLAK EAKSETSGPQIKELTDEKA\ERL QLEIDQKKDAENHEAQLKNGS LDSPGKQDTEDEEEDEKDKG KLKPNLGNRADLAQ*RLNPDPC RELDLAVPF\CVNFRLKGKDMV VDIQRGTPR\VLKKGQPSDSLM GELYNEVKVEES\WLIEDGKVV VTVHLEK\NKMWWWSRLVSS DPEINHPRKINPENSKA\SDLDS *DFASMVEKDDGMTQRTESPM GLPNFQTNRKQEI\K\KFMDQ HP\EMGFFPKAKFPTNPCFFPP
19672	50040	A	19787	3	403	
19673	50041	A	19788	281	1952	DPVPGCRRLLVAMAPTIQTQAQ REDGHRPNSHRTLPERSGVVCR VKYCNSLPDIPDPKFITYPFDQ NRFVQYKATSLEKQHKHLLT EPDLGV\TIDLINPDYRIDPNVL LDPADKLLLEEIQAPTSSKRSQ QHA\KVVPW\MRKTEYISTEFN RYCIFHEK\PEVKKWGSVKQF TEEEIYKDRDSQITAIEKTFEDA QKSVIEGLGWGEARISQHYSKP RVTPVEVMPVFPDFKMWINPC AQVIFDSDPAPKDTSGAAALEM MS\QA\MIRGMMDEEGN\QFVA YFLPVEETLKKRKRQDEEEMD YAPDDVYDYK\IAREYNWNVK NKASKGYEENYFFIFREGDGVY YNELETR\VRLSKRRAKA\GVQ SGTNALLVVKHRDMNEKELEA QETRKAQLENHEPEEEEEEME TEEKEAGGSDEEQEGSSSEKE GSEDEHSGSESEREEDRHEAS DKSGSG\QDDSSDY*ARAARDK EEIFGSDADSEDDADSDDEDRG QAQGGSDNDS\SGR\GGGQR TRSHSRASPFPSGSEHSAQENG \SEAAASDSSEADSDSD
19674	50042	A	19789	1	885	
19675	50043	C	19790	164	361	
19676	50044	C	19791	22	156	

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19677	50045	A	19792	1	1344	PGRTRTSMADVFLSAPIPRGC ADGRDADPTEEHMAQTERNDE EQFECQELL*CHVQVGAPEEEEE EEEEDAVLVAEAEVAAGWM LNFLCLSLCRAFREGREDFRRT RNSAEAIHGLCSLTACQLRTIYI CQFLTRIAAGKTLDAQFENDER ITPLESALMIWGSIEKEHDKLHE EIQNLIKIQAIIVCMENGNFKG AEEVFERIFGDPNSHMPFKSKL LMIISQKDTFHFFQHFSYNHM MEKIKSYV\NYVLSEKSSSTFLM KAAAKVVESKRTRTITSQDKPS GNDVEMETEANLGYKKKC*LT NSLR*LNPQRVQYPY*GSHKNL FYLKLQHGTQQQDLNKKERRV GTPQSTKKKKESRRATESRIPVS KSQPVTPKHRARKRQAWLWE EDKNLRSGVRKYGEGNWSKIL LHYKFNNRTSVMLKDRWRTM KKLKLISDSED
19678	50046	A	19793	1	1444	IPGSTISCLKGQYPSEPFNMAED VSSAAPSPRRCADGRDPADPTEE QMAETERNDEEQFEC\QELLEC QVQVGAPEEEEEEEEEEDAGLV AEAEVAAGWMLDFLCLSLCR AFRDGRSEDFRRTNSAKAIY GLSMLTACPLRTIYICQFLTRIA AGKTP*MRHFENDEARITPLGISP *MIWGSIEKEHDKLHEEIQNLIK IQAIIVCMENGNFKEAEEVFER IFGDPNSHMPFKSKLLMIISQKD TFHFFQHFS\YNHMMGKIKSY VNYVLSEKSSSTFLM\KAAAKVV ESKRTRTITSQDKPSGNDVEME TEANLDTRKRSHKNLFLSKLQH GTQQQDLNKKERRVGTTPQSTK/ RRKKEGRATESRIPVSKSQPV TPENDRARK\RQAWLWGRKDK ILRS\GVREFGEGNWS*ILLHY KF\NNR\TSVM\LKARWRTMEG NLKLDLQDSEDWIVFVKSFDG KGQFKYFDHCILFETCVIDVI
19679	50047	A	19794	1	1020	
19680	50048	A	19795	411	769	SHLGFPGTWTRLWPSRMSPCPP QQRNRVIQLSTSEL/APALGN WARLPQVTEQ*FRGLRKGSR MPGSSPATWTKGCLLA*Q*CL CPQLGWSRVAP*CRLGALFLAC SLLLAAPLRCF

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19681	50049	A	19796	171	325	ETVAVSSAGARASSIMRIMVSS RPSETSLESVPD SAP/PGL*PPP CLSFGL
19682	50050	A	19797	335	1536	GCSPCPPQ\QSRNRVIQLSTSEL GEMELTW\QEIMSITEACRVLN APSEPSFEAPKQPLPYL\GPPPT TYCPC\SIHPDSGFPI\PPPPYEL P\ASTSHVPDPYSYG\NMAIPV SK\PLSLSGLLSEPLQDPLALLD IGL\ PAGPPKPQEDPESDSGLSLN YSDAESLELEGTEAGRRLSEL RRCYPV\EYPYSLMPNSLAHSN YTL\ PAAETPLALEPSSGP\VR KPTARGE/AQGSRDERRAL\AM KISF\PTDKIVNFPVDDFNELLA RYPLTESQLALVRDIRRGKNK VAAQNCRRKRL\ETIVHLERKL ERLTNE\RERL\LRARGEASR\T LKVMRQQ\QELY\REHFPSHLR E*NPGQTAYSP*KK*RACKQAC PNGDPSFPCGPRGT\KMEAHRL
19683	50051	A	19798	1	408	LNLMRWEAVQARGGAFRIPRV DPGPTPIPHNSSSRFDCNSVSTA P\RVLVSGICAAGSFVLVAFSHS VGTS LC/GYFLLLTSPEAQDPGG EEEEAESARQPLIRTEAPESKPG SSSSLSLRERWTVFKGLLWYIV PLV
19684	50052	A	19799	1	759	
19685	50053	A	19800	1	1815	
19686	50054	A	19801	1	942	MGGCAGSRRRFS DSEGEETVPE PRLPLLDHQGAHWKNAVGFV LLGLC NNF SYVVMLSAAHDILS HKRTSGNQSHVDPGPTPIPHNS SSRFDCNSVSTAP\RVLVSGICA AGSFVLVAFSHSVGTS LC/GYFL LLTSPEAQDPGGEEEEAESARQ PLIRTEAPESKPGSSSSLSLRER WTVFKGLLWYIVPLVVVYFAE YFINQGLVSEGCLFRPFPSALN VCEVNLVKVSQHQGGWVAVV TQGKKHPISCRRLNVDGMNIIS NDGSNKLNR SRKARVSYKVQR TINASLNAATSTRAVSSNP NFV

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19687	50055	A	19802	82	1620	SLSPVADPHPSRGSPWLTYDP GPSGDLNLMRWIGCAGSRRRFS DSEGEETVPEPRLPLLDHEGAH WKNAEGFWLLGLCNNFSYVV MLSAAHDLSHKRTSG\NQSHV DPGPNGDSPTTAYSRFD CNSV TGAVLL\ADILPTLVIKLL\APLG L\HLLPYRSGPRVLVSG\ICAGG KFRPGFAFSHVG\TSLCGCWSF ASISSGLG\EVTFLSLTAFYPRA VISWWSSGTGGAGLLGALSYL GLTQAGLSPQQTLLSMLGIPAL LLASYFLLLTSPQAQDPERGEE AK\SQAGQPFI RTEGPE\GKPGSS SSLS\LRERWTVVKGLLWVPLF PWFEVTFPKYFITQGLFELP/LFF WTTSLSHAQQYRWYQMLYQA GVFASRSSLRS\CSIGFTWALAL LQCL\NL\VFLLADVWFGFLPSI YL\VF\LI\LYEGAPWGSASLREK PF\HNIRPWRPSDEHREVCKWR PPCHL*HTGGFILSGASLALPLH DFLLPSSPDTRDPQDAGHIHLW ARGTGYQ
19688	50056	C	19803	270	542	
19689	50057	A	19804	271	449	CLELRNLFYGACSWEVSISSDS EKPGIFNASPASAVHC**GFARP SSWRVLGAICTFHHSVYAKTA KRKAST*RHFHH
19690	50058	A	19805	21	79	
19691	50059	A	19806	1242	1560	WATRSSCSSMEMPPWCPCGC AGRWRRGASRGPREAAAGH* KPRTSNQGEQPTRRPSPYAACA RRAFAGPWASLPSPSPLSAGGL AWGAPCVAHPTRPSPYLLV
19692	50060	B	19807	148	2949	
19693	50061	A	19808	1335	2173	KQAHRPREEKRREEKRKEG\PS VPETLKKKQRNFTELKIKRL\RK KFAQQML\RKAR\RKLIYEKAK HYPKE\YRKMYRT*ISNGRGWA RK\AGQLYLVLKNPKFA\VIRN QKVSMGVSP\KLKRVVVSFLRP SSKSSNETFVKALKQRPSD*TM P*GLVRGPI*LPWGYPQS*SPV NEP*SYK\RGY\AKIQ*EAELPLT DNALIASISWVNSAFICMDDLI HEIYTV\GKRFK\EANNFLWPLQ IVLLPRGG\MKKKTTHFVEGGD AGTQRSDQINRLIRRMN
19694	50062	A	19809	3	186	
19695	50063	A	19810	272	428	

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19696	50064	A	19811	50	2237	RSLKAFICSILSMDKQSRDPPVK MQGSITTPGSIALAQAQAQAQV PAKAPLAGQVSTMVTTSTTTTV AKTVTVTRPTGVSFKKDVPPSI NTTNIDTLLVATDQTERJVEPPE NIQEKIAFIFNNLSQSNMTQKEE LVNNTLVQSYRQQIGNVVNQ ANLQLFWNMYNSRRDLDIRP GTVPNAKTLRCPVMLVVGDNA PAEDGVVECNKLDPTTTTFLK MADSGGLPQVTQPGKLTEAFK YFLQGMGYMPSASMTLRARSR TASLTSASSVDGSRPQACTHSE SSEGLGQLNLKFEIEVLCKNLA LDINELKPGNLLKDKDRLKNLD EQLSAPKKDVKQPEELPPITTTT TSTTPATNSTCTATVPPQPQYS YHDINVYSLAGLVPHITLNPTA HPQLKQCVRQAIERAVQELVHP VVDRSIKIAMTTCEQIVRKDFA LDSEESRMRIAHHMMRNLT GMAMITC/RE/PLLSISTNLKN SFASALRTASPLQREMMDQAA AQI*AQDNCFL/CKVGGVDPK QLAVYEEFARNVPGFLPTNDLS QPTGFLAQPMKQAWATDDVA QIYDKCITELEQHLHAIPPTLAM NPQAQALRSLEVVVLSRNSRD AIAALGLLQKSMENGLNYMAV AFAMQLVKILLVDERSVAHVT EADLFHTIETLMRINAHSRGNA PEGMDITTRQKVNKKREGFND
19697	50065	A	19812	1	3777	KNPEFNKMVLNETYRNIKVLLT SDKAAANFSDRSLLKNLGHWL GMITLAKNKPILHTDL DVKSLL LEAYVKGQQELLYVVPFVAKV LESSIRSVFRPPNPWTMAIMN VLAELHQEHDLKLNKFEIEVL CKNLALDINELKPGNLLKDKDR LKNLDEQLSAPKKDVKQPEELP PITTTTTSTTPATNTTCTATVPP QPQYSYHDINVYSLAGLAPHIT LNPTIPLFQAHPQLKQCVRQAIE RAVQELVHPVVDR



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19698	50066	A	19813	160	1002	KRLGSSAISMSKYKLIMLR\HGE GAWNKENRFCSWVDQKLNSE GMEEARNCGKQLKALNFEFDL VFTSVLNRAIPTAR\IL\EELGQ EWVPVLESSWRLNERHYGAL\I GLNREQ\MA\LNHGEEQVRL\W RRSYNVTP\PPIEE\SHPY\YQEIY NRPGGIKVC\DVPLDQLPRSES\I LKDV\I\ERFLPYW\NERIAPEV\I RG\KTILISAHGK*AVGALLKHL GRYPSGLKTSINIYSFLLGVPIII \ELD\ENLRAVGPHIQFLGDQEI QAAIKKVEDQGGKVKQAKK
19699	50067	A	19814	200	1155	NHYISLFQYSQDTCKLLFRNQ TISQIFLCIFSGVLMVFFLIITTSQ VSFTNFFTGLKIFFLVIKFWVSE FLHHQTGT\YIHIYLLFISMKSFF LYASPLTFMILSHFQASLSSIFGF CSSLFRQSSFFSNILFF*VYTQSY REFRTYYETIPCQFDITFVIFKM CCILILC\FDLLNRRNGSIIQKFG IYGLVKIFIF*IFTNIHLLQ*FFQV VFILQFFNIVKKSFLQPAGSKR* KFFSKVRFFSFL*F*KWEARSSA SKLFLLIY**VYR/IFSLLVFPV V/CPVGWYLLFFFFLYLFFLFLN LSKNSFYSSQWYWFKR
19700	50068	A	19815	1	168	RPWLHLHGRPGWPAPETPPPQD PEQAPPPGRAGPAGEAEGLSKV /P*APSRPRMT
19701	50069	A	19816	1	531	PVGQGARQDDSSSSASPSVRAT SQGGHLMSDLFNKLVMRKGI SGKGPGAGEGPGGAFVRVSDSI PPLPPPQQPQAEDEDDWES*G AP*HLPPDPDLGRCSMDMTAR TSCSDLLPWEGVTEPAVCGDQL QGAEGWLEATQLGRGLVCLYF MGGRLHPACATVFLRGFQQRKR HTNQ
19702	50070	B	19817	61	969	
19703	50071	A	19818	60	436	RGSREYLHTGCPRSGGCRSQCP GPPTQSPKVRPPQRGAPRLRGG DFPPSRLLDTVSFSPSA*AAFPP CPVPHLPAPVQGAPEVVDPSPG GWATLLESIRRAGGIGKAKLRS MKERKLEKKKQKEQ
19704	50072	B	19819	575	1666	

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19705	50073	A	19820	515	1110	MFHPTCLTCPAFANRPHVHCRP GAPAFAPSAPGTIPELPTFHTEV SPSHSRQTLQDGVTTAPPPPPP PPPPPAPEVLGQLQPPLPTLQP RPLLQGQAREGRTAAAA/PSPS/ GPGSSQSGRPLRWLGHSARV HPPSWGHRQGLAAQHERKRN EKKKQKEQEQVRATSQGGHLM SDLFNKLVMRRKGHLWEKDPG AW
19706	50074	A	19821	1	191	MQK*ITAWAPAPMKIKIIASPER KYSVWIGGSIWQLST/FQQMW ISKQEYDESGPSIVHRKCF
19707	50075	C	19822	791	970	
19708	50076	A	19823	13	1260	INPPPLSRRCQLSHSVLPPLRRR VSLPVAMEEEIAALVIDNGSGM CKAGFAGDDAPRAVFPSIVGRP RHQGVVMVG\MGQK\DSYVGDE AQSKRGILTLYPIEHGIVTNW DDMEK\IWHHTFYNELRVAPEE HPVLLTEAPLNPKANREKMTQ\ IMFETFNTPAMY\VA\IQAVLSL* \ASGRTTGIVMDSG\DGVTHTV\ PILRGLPHCSTPFLRLGPGLARD LTDYLMKILT\ERGYSFTTHGPS GKTFRNKGEACATSPLDFEQ\E MGTAASSSSLEKSYELPDGQVI TIGNERFRCPEALFQPSFLGMES CGIHETTFNSIMKCDVDIRKDL YANT\ALSGGTTMDPG\IADRM QK\ENTALAAPAP*KIR\IAPPER K\YSVWIGGSILASLSTFQQMWI SKQEYDESGPSIVHRKCF
19709	50077	A	19824	93	534	

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19710	50078	A	19825	1	1462	WEVSAQPSPAVPRRAPLRGLSA TRSAAGTMREIVHIQ\AQQCGN QIGAKFWVISDEH\GIDPTGSY HGDSDLQLERINVYYNEAAGN KYVPRAILVDLEPGS\MDSVRS GPFQQIFRPDNFVFGQSGAGNN WAKGHYTEGAELVDSVLADV RKESESCDCLQG\FQLTHSLGG RHGVPGWGTLLHQQSGGEEYP DRIHETPFSVH\VPSPKVFKTRL LEPLQRHTSRFHHLVENT\VKP YSIDNEAL\YICLPTAES*PTPT YG\ALNPPGCSATMSGVTT\CLR FP/GGQLNADLRKLA\VNMPVF PRLHFFMPGFAPLTSRGSQQYR ALTVPE\LTQQMFDSSKKMIA/AP CDPPPTGR\YLTVA AIFRGRMFH GRRWDEADGSNVAGTRNRQVI SWEWVP\NNVKTA\VC\DIPPPG AWKMS\ATFIGNQPRPSRRLFK RIYE\QF\TAMFPAQGPSLHWLH GRRAMDGDGSSPEAREQHERP WCPEYQQYPGTPRPT
19711	50079	A	19826	2	180	
19712	50080	A	19827	28	185	
19713	50081	A	19828	179	307	
19714	50082	A	19829	438	663	
19715	50083	C	19830	99	335	
19716	50084	A	19831	1	320	AYADQL*LRRHKSSSSSSSSSSSS SSSSSSSSPLAP*LGSGDLP*EIN PPSSCSLLREKDPPTTSGPQ\PTS PRNISPISNPDPTGNRTVQLTWQ PLPQPLELWPKAL
19717	50085	A	19832	578	753	LCTPTPFPLFWKTVRKYSSNNQ KGE*NTVLMEVCPRSPRTN*KD SQ*PFELLTKMTSQGSDISGDLP WEINPLSSCSLLHEKDPPTTSGP QTDQPKKHLTNFKSETKETHFI RGPKTPVLVTDWEGRLPLVFN HSRDASLIHPRFRGVRPRRDAC LGPSPLAASPAFLEEGQVPQPLL SMSLTPSLLFWRRGKKPSTPSSP LAASPAFLEEGQVPQPHISVPRS LISTPQPLITLHPDPFPAFLEDSK EVLKQQPKGRIKHCADGGMSK EPKNQLKGLPVTKAGNIHGIN
19718	50086	A	19833	95	259	SHRPSQ*VLQLIKVAHPELFVPP SGFVVSLTSGMKLQTLTTREW MRILLIFWNG
19719	50087	A	19834	1	939	
19720	50088	A	19835	391	792	

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19721	50089	A	19836	1	1317	
19722	50090	B	19837	1	1665	
19723	50091	A	19838	573	902	YSCLLILIRKITQNSVEVLGRRK FLGGGMEREWMFL/EGCFKR D*GQRGNQFQIRVTAPNFMCV CVKRPPNRLCVSNKAVYFTWV QVGFQIFEKPEPIEEICKVCWRP
19724	50092	A	19839	1802	2229	GGGAEAEELGPSSAWRGAAC PCPRKAGLVAKAEGPRQASLR GLTPLKRECIIEASLQ*LNTK/V KAAFPVRDRRWSFGFTDKTCLF CLGSEIGEVLGLVGLRT*GRR WIFLMEQRAGGQGIDLPREVPR SKSGHQISLVS
19725	50093	A	19840	19	4153	PPDPLPGLPCPPGGPPLPAFGGG WGGARGSWHWSSRACSRRRR LVHAPRAPLLPRAAAEKAKRP AGARQMGLKARRAAGAAGGG GDGGGGGGGAANPAGGDAAA AGDEERKVGLAPGDVEQVTLA LGAGADKDGTLLEGGGRDEG QRRTPQGIGLLAKTPLSRPVKR NNAKYRRIQTLIYDALERPRGW ALLYHALVFLIVLG\CLILAVL TTFKEYETVSGDWLLLLETFAIF IFGAEFALRIWAAGCCCR
19726	50094	A	19841	355	640	ILDYVFSSSHLFQSKLLGRRGR ASHGTKL*AGPGVGGGEVIKGL* GGGAEAEELGPSSAWQGAAC SFPRKAGLAAKGEGPRQASLH GLTPLKCG
19727	50095	C	19842	55	189	
19728	50096	B	19843	96	401	
19729	50097	C	19844	558	725	
19730	50098	C	19845	448	540	
19731	50099	C	19846	140	334	
19732	50100	A	19847	362	710	ILGGRKLRLEKSLGCAAQGGG AL/YEEWLELRNGCLCCSVKD NGL*/RAIENLMQKKGKFDYIL LETTGFADPGAVASMFVWDAE LGSDIYLDGIITIVDSKYGLKHL AEEKPDGLIQ
19733	50101	A	19848	181	543	
19734	50102	A	19849	1	594	
19735	50103	B	19850	29	746	
19736	50104	A	19851	45	362	EEQHSMLGSGFKAERLRVNL LVINRLKLE/KKDERARIRVEH IREDYLV EAMEILELYCDLLA RFGLIQSMKELDSGLAESVSTLI WAAPRLQSEVAELKIVA

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19737	50105	A	19852	344	951	EEQHSM LGSGFKA EHLRVNLR LVINRLELL/EGKKKKKTELAQ KAGKEIADYLAAGKDERARIR VEHIREDYFVEAMEILELYCDL LLARFGLIQSMKELDSGLAESV STLILAASRLQSEVEGFNIISS* IPSNSPIILNL*MAIKGCKNY/RL LHQIVVPGPSQKPLQNFLDLR LPWTTLWPIFGLEGKIPLWERIK
19738	50106	A	19853	1	1077	
19739	50107	A	19854	1	1140	
19740	50108	A	19855	1	3426	
19741	50109	A	19856	1	942	
19742	50110	A	19857	342	1499	EEQHSM LGSGFKAERLRVNLR LVINRLKLEKKKTELAQKARK EIADYLAAGKDERARIRVEHIIR EDYLVEAMEILELYCDL/LCLA RLG/LYSSY*KELDSGLAESVST LIWAAPRLQSEVAELKIVADQ LCAKYSKEYGKLCRTNQIGTV NDRLMHKLSVGTTPQILVERY LIEIAKNYNVPYEPDSV\VMAE APPGVETDLIDGGFPDDVKKR\ GPWKKEGSGGFTAPVGGPDGT VPMMPMPMPMPMPMPMPMPMP LPKGPSDFNGLPMGTYQAFNPI HPPQIPATSPIRIESVRWTFNCLI KEYS/IFLAQICLGPGKARRPF AKF\SRPADNF*QLLFLPELPSV PDTLPTASAGASTFRHLKDIDF DDL SRRFEGAGKRKT
19743	50111	A	19858	2	255	GCISTSR LGSMPTTTLRLLQKIS *RSYSSAPASCLISIVKSASD*RA RAPTRGSYGGPLLRLSSSSSLAS GRCVTSRASLRPRS
19744	50112	A	19859	1	276	
19745	50113	A	19860	3	151	GAVPAVRLGGPLHVHLP HAR*P SNLSALQFYQDGLRWWQTVS *RAASRSPPTRPVTIKSVCTPILP GWLSSLVANCIVKSASD
19746	50114	A	19861	1	386	DCVIATDAEVLGAPVKGKRRG RGPKGDKASDPEAGVARGIDF HHVSAVLNFDLPPTPEAYIHRA GR**CDGPGICMVGTLRDLGCA GQSLRVGDASCTVFPCRTARAN NPGIVLTFVLPT EQFHLC KI
19747	50115	B	19862	26	186	

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19748	50116	A	19863	2	1839	ARGQVRVRAALLSSAMEDSEAL GFEHMGLDPRLLQAVTDLGWS RPTLIQEKAIPALLEGKDL\AR ARTGSGKTAAYAIPMLQLLLHR K\RQVRW*NRQ*EGLVLVPTKE L\ARQAQSLIQQLATYCCSGMS ELANVSAC*KTQSLRELCLMEK PD\VVVGTPSRILSHFAARQPET FVTPWSFLVVERS\LTFFFPFGFE EELKKSSSGKAESLAPDFNKAF LMSATFNEDVQA\KELILHNP\ VTLLKLQESQLPGARPVTA VSGG L*DLREDKFLLLYALLKL FIDSG ASLW\FCSTL*EREFTGLRLFL WEQFQ/LSPTCVLNGELPLRSR VPHHL/QQFNQGFYGLCHRQL/ NAEVLGAPVQGGASGPRAQRG Q/VPLDPEAGVARGIDFHHCVC\ VLNF*SFPPTPEA\YIHRAGR**C DGP GICMDSTR*QPRA*S*PFVL PTEQFH/CRQD*GASQWREQGA P/SLLPYKFGMEEIEGFRYR\*GV HPQDAMRSVTKQAIREAR\SLI KEELLHSEK\K\TYFGRQPLGD LQALRHGPLYLCTPQLVEAPTW GHVPDLPGSSCF\SVALGAPFTK KREEACLPSCRKAQESKVPRT LRSFKHKGKKFRPDSQALREV
19749	50117	A	19864	3	378	TTTKFAGRRPKVTVLGQP/KAA PSVTLFPPSSEELQANKATLVCL ISDFYPGAVTVAWKRGSSPVKA GVETTTPSKQSNNKYAASSYLS LTPEQWKSHKSYSCQVTHEGST VEKTVAPTEYLLRVY
19750	50118	A	19865	1	546	MAWTPLLLLLLSHCTGSLSQPV LTQPPSSSASPGESARLTCTLPS DINVGSYNIYWYQKPGSPPRY LLYYSDSDKGQGGVPSRFSG SKDASANTGILLISGLQSEDEAD YY/CGCFTVFWSTF*VLVPEHQ QSWLPLWTPGVVSLLV/CLVPS FVPPPLTKVPSSLSPVKESAILA VDIH

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19751	50119	A	19866	2	838	RVRVSTMAWTPLLLLLLSHCT GSLSQPVLTQPPSSSASPGESAR LTCTLPSDINVGIYNIYWYQQK SGSPPRYLLYYYSYKGLGSG VPSRFSGSKDASANTGILLISGL QSDDEG\DYCATWDSSLTGQ VFGGGD/TKLTRP*GQPKACPP GVTLVPNPPS/SRSFQAQQGPQL VMSS*SDFLTPGSPLNSCPWKIA DSQPPFKAG\VETHTTPPKQSNN QVRGPAGYLSLTA\EQWEVPTE SYSCQ\VTH*RGAPWEKTVGPY RMFHRFLNPSPPHGMT
19752	50120	A	19867	1338	1854	NSETREHNHRYVPQRETSGGTD GWKSKQPE*L*RRQLVQSWAK S*NQPKLPSSPH*ELPWVTPSA RNFRSGPYSPPPPPQPLPSSHL SSLHFYSPFVSYSFDLYSSSYH SYLMDEDTVEPKELRSSQKVIG HSFTGFQPTLSANPYDRGDGKII ELLPRKAQTFPVVRT
19753	50121	A	19868	1	500	GSTYSELLSGTACVVTAHLAQ QRRHLLGGLASRHDAPEQLA VGAPVQPRPLPAPAGAALVG HAHVVEGGP/PGSGGPGEAI ARGPGAAAAAGAGPGAPRRRR LQASAGPCSRSEPGRRSAPRA APPAPSAGPHVAFPSRPAAGS PPRSRPPPPPGIPTGGR
19754	50122	A	19869	20	507	TRQVYSGGVRTPPCQSHPHRPR SSCRPPPPRRRPSRRRRRLSP RRAPAHWSSRSTRPAWWAPSR RHAPRPPWSPGPASG*CSVYFPI LPLALFPLPVHHGGVHVCGRG VGLVQEGDSHSGEWS*RSWAG STSLRAAPRSGGRPPAGGGWR YTRPPSRRRC

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19755	50123	A	19870	236	1191	GSGRIPGRAGLEGPGPAFQKSR LSPASGSAGPRGASPSAVPPGR/ RPGVPAFPASNPPVAAVPGPW VTCWKGGLQGEKGAPRAPH GTPQR\SPGSARPTGLSPPA*PSR *RARRPSPETP\PGHGRAGPPPP DGA VQRQGGPGCRAPSASRPPGS ARARRRRWPAARPPGCPARPG PRGGRPRRRSPPAAGRARRRA PRTPAARSR*VCPRGRRSAAPP RGHGTA PCAAAAPPPRGLGRP ADAPEQ/PRCRCARPAPPLPAPA GAQALVGHAHLLKAAALGHDF TFLWATIHEVIPKMRWGQSQC QRGGPSSHTPDLSA
19756	50124	A	19871	24	286	LRGQKVLLLGDRLRSQKKKE RKREEREREHGRNGR/RRNG QGRGPEGQR*NERTGQERTGH GREGRKEGRKEGRKEGRNERE
19757	50125	A	19872	43	373	PRFTDENLEMCTVIQSVQCYHR SWH/HSSPPEAPHHQSPPAHSP VLCWFRRLGGGEDWAPSSGGR AVWRSHCSCFCCSSSCSCSQ SGKR TAAAPWPTTSPAPSRSCC A
19758	50126	A	19873	3387	4083	AGRSALPVDAVQVQAEGLWPP AVLLHHHHHPHHHYHHYHHH HHHHHHP*HHHPHHHHHHHRN HHHHHHHHLHHHHHHHHHHL YHSHYHHH/HHHHDHHHYHH FHDHYHHHHH/HYSHH/HHPH/ HHHH*RHDHY/AHHHHHQVHH CHHCHHPHRHGHHYHHHGT VAFGALEDSAVARTGLPLPEGV LCGAP TAAASAAVPPPAVPAPN QGRGPQLHPGQQLRPLLHAHA ALQWPTTHL
19759	50127	A	19874	3	411	
19760	50128	A	19875	1	1095	
19761	50129	A	19876	1	471	
19762	50130	A	19877	1	554	FRGRLASPFRPVPMEALGKLKQ FDA YPKTLEDFRVKTCGGATV TIVSGLLMLLLFLSELQYYLTTE /VKGRGLMRGRGLAF*E*DL*G WEWGRRGLGLSLTEVALPQVH PELYVDKSRGDKLKINIDVLP HMP CAYLSIDAMDVAGEQQLD VEHNLFKQRLDKDGIPVSSEAE RHVLSFVVSAD
19763	50131	B	19878	1116	1274	
19764	50132	A	19879	28	389	



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19765	50133	A	19880	75	448	
19766	50134	A	19881	276	830	QEDSCPLHPLSGIPFRRFQPTPE EAGAVVPGEPTHQDQGPSSALT RR*ACQGPLHLARTTAEPGHAH PWH*RWQRYMGKLGRLDLEKV CPVWSSVACSSPGLSWAGKTE AKTSLEGGNSASASASSWAWG RSSLAPVRDILGSREFSGLLEGT FVLSVTLSADFGIGTWVDLGKV TGSSSKEGRL
19767	50135	A	19882	223	1269	APVTKRKEVFAKDSKGSALDA GRDPKRPALPETLCESGWASNT APTAPPQPGWCLCGKDFKSSCQ TPGREKERRLATMHGSCSFLML LLPLLLLLVATTGPVGALTDEE KRLMVELHNLRYAQVSPASD MLHMRWDEELAAFAKAYARQ CVWGHNKERRRGENLFAITD EGMDVPLAMEEWHHEA*/DTT TSAP/HSCSPGQMCGRYTQVVW AKTERIGCGSHSCEKLQGVET NIELLCVNYEPPGNVKGKRPYQ EGTPGSQCPSGYHCKNSLCEPI GSPEDAQDLPYLVTEAPSFRAT EASDSMKMGAEGPDKPSVVSG LNSGPGHVWGPLLGLLLLPLV LAGIF
19768	50136	A	19883	2	281	FVPALGSSAVMLSRRCVSRF SRSLSAFQ/KGVSLCQGPYPNS RKVVINNSVFSVRFFRTTAVCK DDLVTVKTPAFAESVTEGDVR WEKGKI

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19769	50137	A	19884	1	1320	MPAVTILKPNLKQIILGLKAAE VSSLPPSIVLDAKEITTQITRQIL KGNCPLGRHSLPGVSLCQGPY PNSRKVVINNSVFSVRFFRTTIV CKYDLVTVKTPAFAEPVTEGD VRWEKAVGDTVAEDEVVCEIE TDKTLVQVPSPANGMIEALFVP DGGKVEGGTPLFTLRKTGAAP AKAKPAEAPAAAAPKAEPIAA AVPPRAAPIPT/QMPPVPSQPP SSKPVSAEAQNTCA\MLTIFNEI DVSNIQKMRARHKEAFLKKHN LKLGFMSASVKASAFALQEQP VVNAVIDDITKEVVYRDYIDIS VAVATPQGLVVPVIRNVEAMN YADIEQTITELGEKARKNEFAIE DMDGGTFTISNGGVFGSLF/GTP IINPPSAILGMHGIFDKPVAIGG KVEVQPM MYVALTYDHRLLIDG REAVTFLRKIKAAVEDPRVLLF
19770	50138	A	19885	1	1559	MESEALVVCINHCMAVN YGMI YQRGSSNMNLSLSLKHPEKTGI SPTANHGISDLQEGEAACGSLR TPLVGRRLRPAPLPVVVRPYI RCPPALGSSAVMLSRSCVSRA FSRSLSAFQKGNCPLGRRSLPED DLVTVKTPAFAESVTEGDVRW EKAVGDTVAEDEVVCEIETDKT SVQVPSPANGVIEALLVPDGGK VEGGTPLFTLRKTGAAPAKAKP AEAPAAAAPKAEPTAAAVPPPA APIPTQMPPVPSQPPSGKPVS AVKPTVAPPLAEPGAGKGLRSE HREKMNR\MRQRIAQRLKEAQ NTCAML TTFNEIDMSNIQEMRA RHKEAFL\RLKLKLRLMSAIV EGSAFALQEKPLLMEGIDDTT KEVVYRDYIDISVAVAHPRGLV VPVIRNVEAMNFADIERTITELG EKARKNELAIEDMDGGTFTISN GGVFGSLFGTPIINPPQSAILGM HGIFDRPVAIGGKVEVRPMMY VALTYDHRLLIDGREAVTFLRKI KAAVEDPRVLLLDL
19771	50139	B	19886	239	3045	

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19772	50140	A	19887	3	809	RGRFLPPCHPAALPPCRPAALLP VVAARGAPSPPPPHVLPCVGS LGYNMLGMIKNSLFGSVETWP WKVLSKGDKEEVAYEERACEG G\KFATVEVTDKPV\DEALTGK QLPKV\AKYAGGTNDKG\IGMG MTVPISFA\VFNP*RWLSCRKKL KVVFPDFQTNFQSDPPAPSDKS VK\NEEREGIHCLIPCQFGGYAK\ EADYVVAQATRLRAALGGPAT YRGDIYF\GTGYDPPMK\PYGRR- NE\WLFEDMSDPTERTYWEV CLCVSFLRG
19773	50141	C	19888	164	208	
19774	50142	A	19889	1542	1929	NLVPSLGSGDLPWEINP/LSSCS LLHEKDPPTTSGPQTDQPKHL TNFKSAARPTSWGRGKYPSTPS PSPLAASPAFLGGKNPIAYFHT PTSYLCAPIPYFCAPTSLFWR ARTTTPTPSLCLKSFL
19775	50143	A	19890	1	208	MPEPQRPGVPPEPPPPGACYAC RKSGHWA\RNARSPGFLLSRVP SPPGPSRTPSFG*LSQWKPTCTQ VK
19776	50144	A	19891	1	1662	
19777	50145	B	19892	1	915	
19778	50146	A	19893	183	569	
19779	50147	C	19894	71	344	
19780	50148	A	19895	147	446	
19781	50149	A	19896	167	373	
19782	50150	A	19897	142	363	
19783	50151	C	19898	52	174	
19784	50152	C	19899	228	260	
19785	50153	A	19900	1	753	
19786	50154	A	19901	1	1077	
19787	50155	A	19902	500	912	LGSGDFPWEINPLSSCSL/LREK DPRTTSGPQTDQPSKHLTNLKS ASTPPPYNPFITSPHTRSGLQFR STSSPPAPAQQFTLKKVAEAKG IVKVNAFSLSDLSQISVRLGSFI KYEKSSPVHGSFGSNPETLYSP
19788	50156	A	19903	1	861	
19789	50157	B	19904	174	222	
19790	50158	A	19905	1	756	

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19791	50159	A	19906	1035	1852	NLVPSLGSGDLPWEINP/LSSCS LLHEKDPPTTSGPQTDQPKKHL TNFKSAARPTSWGRGKYPSTPS PSPLAASPAFLGQRQVPLSWGR GRCPSTPSPSPAASPAFLGQQG RQVPLSWGRGRCPSTPSPSPA ASPAFLGQQQRQVPLSWGRGR CPSTPSPSPAASPAFLGQQQRQ VPLSWGRGRYPSTPSPSPAASP AFLGQQQRQVPLSWGRGRCP TPSPSPAASPAFLGQRQVPLSW GRYPSTPSPSPAASPTFLGQDL PLSWG
19792	50160	A	19907	1644	1981	LGSGDLPWEINPSSSCSLLREKD PPTTSGPQTDQPKKHLTNFKSA *KRTNTASYK/WHSQSRVPAPR DGLVAAPTESEVAFLPVPPHQ PPLGNLGPSTVTTSFRCWLLDP RS
19793	50161	A	19908	1011	1154	
19794	50162	A	19909	1043	1168	
19795	50163	A	19910	1328	1470	
19796	50164	B	19911	406	1191	
19797	50165	A	19912	2848	3140	SFYHLSSSHLVRLTVSFRD*PSP TCPAIYS*KGGWSQRHSQGACY TCRKSGHWAARNARSPGFLLSH VPSVWDPTENRTVQLTWQPIPE PLELWPKAL
19798	50166	B	19913	1	941	
19799	50167	A	19914	656	1983	NLVPSLGSGDLPWEINP/LSSCS LLHEKDPPTTSGPQTDQPKKHL TNFKSEAKEICFIREPKTPAPVT DWEGSLPLVFNHCRDASLIHS RFKGVRRRDAACLGPSPLAASPI FLGKGQRLKTDARLPRKP SRMPSPGVKHNVTIDCLPEGA ATRGTARTSKPTTKSQKTL SPGHWTQSTPWASALRSPWTE TAAPSETEETLNTGRPEL PARATATWFSASHTLPALATRRVART QWLTADRQTWASISSVPWAQT ISEKKPGGSLWETRSPPTTAGT EEAMNTTSLAPAAEIMATPGS PSQASPTSGAFTHGTQTPSPTKA TAPRYPQTGNSILTFGRPFLPFA GDLFAEWPFAGEEPVLVPRPH QVSKTRSPPSFHLTLKTVTVAL LGNGEECYVYLSVSELREIRTR LYSPDAGLNEEKMLTKLLI
19800	50168	A	19915	117	432	
19801	50169	C	19916	122	289	

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19802	50170	A	19917	1	516	
19803	50171	B	19918	212	3302	
19804	50172	C	19919	181	444	
19805	50173	A	19920	151	485	SPRGHYQLLLSGRALADRYRRI YTAALNDRDQGGGSAGHPAS/ RSENLENTVIIPDIKLHSNPSAFN IYCNVRHC VLEWQKKEISLAAA SKNSVQSGESDSDEEEESKEPPI
19806	50174	A	19921	1	3465	
19807	50175	A	19922	1	176	
19808	50176	A	19923	114	14211	AAPVAAPGALFMPVPDGSVAA AGLGLGLPAADSPGHYQLLLSG RALADRYRRIYTAALNDRDQG GGSAGHPASRNKKILNKKKLK RKQKSKSKVKTRSKSENLENTV IIPDIKLHSNPSAFNIYCNVRHC VLEWQKKEISLAAASKNSVQS GESDSDEEEESKEPPIKPKIIEV GLCEVFELIKETRFSHPSLCLRS LQALLNVLQGGQPEVLQSEPPE VLESFLQLLLEITVRSTGMNDST GQSLTALSCACL
19809	50177	A	19924	375	1191	SQGIPELHYTPGPRGRWCGWW PIVEPRMGASQGCCVLGH LAQ QGGGASQAVRGANGVHAGCR GDPHPRSDHYPGGRPWLPGAS QDPAVAPGGHGHPSYLARLPC AAEPGTP/PAEPPRPSSLPGAAT APAGT*\PALADAPPRRVGGAG QPGRGHV*PKLVPGWQSQDSI* PSL/PSSPARHTLAASATP*APGS GARPAW*C*WAPALAPVIPVD AHSP\GGAGHGPGH*GPRGSV LGLRLPAGCPGPRQPHRPGQSG PQPSSPPGGALRSASR
19810	50178	A	19925	3	543	SDDQPEKPHFDSRSVIFELDSCN GSGKVCLVYKSGKPALAEDTEI WFLDRALYWHFLTDTFTAYYR LLITHLGLPQWQYAFT\SYGISP QAKGITKATCEWGEHIIPLGSM AINSISKLTQLTQSSMYSLPNAP TLADLEDDTHEGRKGTEGSQL KCEHQLPPPM SHVGGGQRESL ARKEK
19811	50179	A	19926	1	392	FLDRALYWHFLTDTFTAYYRL LITHLGLPQWQYAFTSYGISPQ AKITYNIKMNRRKCVHWKLA V EPLQWELRSCVSAGMGTGPKQ KVSSMKPRSCSVCSRRQSN SMG TTVSQSFLSYGKNVLFPPVRCC

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19812	50180	A	19927	1	1081	RAMEEEASSPGLGCSKPHLEKL TLG!TRILESSPGVTEVTIIEKPP AERHMISSWEQKNNCVMPEDV KNFYLMTNGFHM TWSVKLDE HIIPLGEALAINKHLKTD FSFTQ SSMLFTFLIAPT LGQTWEDDTH GSQWMIQPEKPHFGLFAVLIF* GWVS\CNGSG\KVCLV\YKSG\K PALAEGHWRF LFPGT ELLYWH FLTD TFTA YYR\LLIT\HLGLPQ\ WAILPFTSYGISPQAKQWFSM- Y*TYSPYNTNLV/TQKETDSFCG IKLDPSKVF*GGKNKIVIPKKKG PVQPAGG\QKGPFRDPPVPSISSI FKSSSGLWGNPTREVSTPPSNSL PAPEWWFPCTD GPRGDLQFCV WTVGLFLVE
19813	50181	A	19928	1	2835	MDALMLALGALMLALGLGDP KSAQVSDPDGAEPGPGRATGT DPLVQIHWKLGISEALSIPGGRL YRDLWSLTPVCLHIPGIAHHGP FTLGRMDVVEVAGS WWAQER EDIIMKYEKGHRAGLPEDKGPK SFGSYNNNV DHLGIVHETELPP LTAREVKQIRREISRKSKWVKM LGEWDTYKNSRKLIDRAYQGIP MNIRGPMWSVLLNIEEIKLKNP GRYQVRSARAQPTGQAVSQAQ VSSWRERQDHPGELGVKI
19814	50182	A	19929	3	142	TISSIIRKARKP\QDLLNNYTPRS SPLRSSGRTRMYKGNV RPGNS S
19815	50183	A	19930	904	1295	WALMNGSES RFFVSSSQGRSEL VPNS/NYAVDY*PLTAHAVSSG GTSPVLARLLREKLES L\PLHL GQVAKYAGQLRGRVKQQFAT MGERRRFWEKLFVNDR/AGAV AGKQRSESHY*NDRTVNQRTA RPSR
19816	50184	B	19932	1	1050	
19817	50185	A	19933	303	384	

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19818	50186	A	19934	375	1161	EALESAPEG/RR*GSGTKTLSPS P/PAGSWVCRIPMGRGCRHGAE R/P/PGSQESSPSNGHGKLAGPSP YLGRFKSSS*T*QSPQTPAQGV AS*GLGAAPVLRQLQGPVPPSHC GKSRPDPC*PSPGSPDPGERES QQESQ*WPPVGELCTDPTGNPE RGGRHLQ\SHAPSGGGLSGFPS DSFPCSCYYGSTPVARKKRFK CRGYIYDFVYELLSLKPPSQGV AEMPPPAVGGQQAEPGRGIPQ SPAGGRVFFQDFYSLCLENTS
19819	50187	B	19935	62	346	
19820	50188	B	19936	1	1629	
19821	50189	A	19937	1	1218	
19822	50190	C	19938	718	1053	
19823	50191	A	19939	54	212	
19824	50192	A	19940	122	451	
19825	50193	A	19941	329	398	FFSYFRPSGCILPL*ELPEARCP
19826	50194	A	19942	92	346	VGSSPSRL*SLRGQVLNKN*S/I QLGCLHIVGNPI*NS*DVPWAG WSED*GRRWISSRSSSKDRGPV S*RSPPVPGLQHQMASHAM
19827	50195	A	19943	284	374	LKNHKRSEYALPHLN**PSTTK EV*M/DRS/SALSDDITL*KSFSW LILAQKSPPLSTLQPPLLPAREQ TLFDCNSPLPTQIL*NGPTLISLR *LSQDEPGKGLSQGNVIT
19828	50196	A	19944	1	1674	MAPPLSPFADSLFGLSPPAPRDK GDTFYPWTQNSGARHGLGRQP SLGVSSLQGRSLDHSPTFQRCQ TTQGRLPWSFTLSGKSCFSEEG AIPTPSVAESFQSSFSTDPSDLSP PPQPAHRQAELSPNSSASTPPP YNPPTTSPPHTRSGLQFSSATSS SPPAQQFPLREVAGAEGIVNAH VPFSLSDLQSISQHLGSFSSDPT KYIQEFYRLTSLYNLTWSDLNV ILTSTLSPDERERVFPVSQSHAD NRRLHEP

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19829	50197	A	19945	1746	3501	ESDPSNSTTSMRDRTLL/MSSIVP RLPSACRILPTGFTIPE*SCVHRT ASLIPPLPPGSRKYSPPLPLNSLI FLKN/SAYTAVPALQTDWATSP ISLHLRTSFNSPHLYPPEELIYFL DRSSKTSPDISHQQAALLRTY LKNLSPYINSTPIFGPLTTQTTI PVAAPLCISWQRPTGIPLGNLSP SRCSFTLHLRSPTTNINETIGAF QLHITDKPSINTDKLKNISSNYC LGRHLPICISLHPWLSSPCSSDSP PRPSSCLLIPSPENNSERLLVDT RRFLIHHENRTFPSTQLPHQSPL QPLTAAALAGSLGVVWQDTPF STPSHLFTLHLQFCLAQGLFFLC GSSTYMCLPANWTGTCTLVFL TPKIQFANGTEELPVPLMTPTQ QKRVIPLPLMVGLGLSASTVA LGTGIAGISTSVMTRSLSNDFS ASITDISQTL SVLQAQVDSLAA VVLQNRRLDLLTAEKGGCLIF LNECCFYLNQSGLVYDNIKKL KDRAQKLANQASNYAEPWAL SNWMSWVLPVSPILPIFLLLF GPCIFRLVSQFIQNRIQAITNHSI RQMFLTSPQYHPLQDLPSA
19830	50198	A	19946	1392	1676	GFCILHIVLEPWFSAPSAPLSTSL YWL*LYILLNFFQSFQLLCLW FECPPVAQSNLIV*SLLLSARQS HSPSSFFPLLVRNCVPLEEERCS
19831	50199	B	19947	1	1500	
19832	50200	A	19948	107	691	TTMLLIQSLFGGLFTWTRMKFG AVARIGGHPLGDQSPASSCSLLP EKDPPTTSGPQIDQPKKHLTDF KSGTPL*LYTHVSRVSDHAGTP ALVLHPYVGKSRFSGEGATQRQ YPIPQQALKGLMPAITRLLQHG LLKPINSPIYHSPILPVLPDKPY KLVQDLPLSTKLFCLSTPWCQT HILFYPQYLPLQPIILF
19833	50201	B	19949	1	2628	
19834	50202	B	19950	1	585	
19835	50203	B	19951	178	462	
19836	50204	C	19952	1	825	



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19837	50205	A	19953	644	1795	RPSKSQTMNLNSLSTALIISKIYFL PHT*HIYFLLPGSFCYTHSLLSLP QLPLFL/CLDLNAASHIIPDTTPD PHDCISLIHLTFTFPQISFFPVSH DHTWFIDGSSTRPN\TTHQQRQ AML*YLPHLRLPLCLPPLPLS KPN*LP*LKPINSYPNSPILPVQK PDKSYRLVQDLRLINQIVLPIHP VVPNPYTLSSIPSSTTHYSMLD LKDAFFTIPLHPSSQPLFAFTWT DPDTHQSQQLTWAVLPQGFDRD SPHYFSQALSHDLLSFHPSASHL IQYIDDLLLCSPSFESSQQDTLL LLQCLFSKGYRVSPSKAQISSPS VTYLGIIHLKHNTHALPADRWPS CLRAAAAAALILVEALKITNYA QLTLYSSHNFNQLFSSSHLTHIL SAPRLLLLYSLFVESPTITIVPGL DLNAASHIIPDTTPDPHDCISLIH LTFTFPQISFFPVSHPDHTWFID GSSTRPNHHSKAGYAIVSST SIIETALPPSTTSQQAELVTLT QALTLAKGLRINIYTDISKYAFHI LQHHA VIWAERGFLT TQGSSIIN ASLIKTLTKTLLPKEAGVIHCK GHQKASDPALGNAYADKVAR QAASSPTSVPHSQFFSFASVTPT YSPTETSTYQSLPTQGWFLDQ GKYLLPASQAHSILSSFHNLFH VGYPKPLDRLLLEPLISFPSWKSIL KEITSQCSICYSTTPQGLFRPPPF PTHQARGFAPAQDWQIDFTHM
19838	50206	A	19954	52	641	RPSKSQTMNLNSLSTALIISKIYFL PHT*HIYFLLPGSFCYTHSLLSLP QLPLFL/CLDLNAASHIIPDTTPD PHDCISLIHLTFTFPQISFFPVSH DHTWFIDGSSTRPN\TTHQQRQ AML*YLPHLRLPLCLPPLPLS KPN*LP*LKPSLLQKDYASISILI LNMPFIFCSTMQSYGLKEVSSL HKGPPLMPL
19839	50207	A	19955	3	380	TTPDPHDCISLIHLTFTFPFHISFF RVPHPYHIWFIDGSSTRPNATH QQRQAML*YLPHLRLRLCLCPP PLPLSKPN*LP*LKPSLLQKDYA SIFILT LNMPFISCTTMQEVSSLH KGPLSLIPL

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19840	50208	A	19956	154	485	TFIRTHFLTQPQPCPRHQPSR*L SSSPAG*TG/IFARLLIFSCLLQI LNHM/QHTLAGQSVLVKNLTP QTLQPRWTGPYLVYSTPT/VRP PAGSSPLGSPFQSKAVSISQPA
19841	50209	A	19957	158	416	ISGTCSNLLGEEVLEERLAAAV QAFGSSRVLEMWLGFSQWRQ VIVTQKCIADVWLLPLYCTP*R QG*LIPVVGFEQGILIFEVFS
19842	50210	C	19958	1	1755	
19843	50211	A	19959	2	394	
19844	50212	A	19960	710	1093	KEPTQHSFSYTHSLLSLPQLPLF L/CPDFNPASHIIPDTTPDPHDCI SLIHLTFTFPFHISFFPVSHPDHT WFTDGSSTRPNATHQQRQDM Q*YLPHELLLTLPCPPPLPSKP NQLP*LRPSLLQKG
19845	50213	C	19961	1	1287	
19846	50214	A	19962	1	1293	MEEPLGFKQTLVVAQQNPLWT SGGGGHSPSGSGHRGVCITTL VPEGSSQKETPHVSEKLKEKNE SLPGNPENSSSRSPRRHASKA RDSDEENDPDEDAVVNAVGC LGKNSGFLAPELQKYQKQIKDG TAGTPAISTTTTVEIRKSSVMTT GDHLLSGKKAQRPAAPHSSCPS TETEEKGKRLLYWVWQVA VNSASQLEAHNSENPSVLSERI RERPGLWHGYRPSRSPHLSLS GSYSLWALRTDTVCD
19847	50215	C	19963	1	846	
19848	50216	B	19964	377	1172	
19849	50217	A	19965	564	1163	FPKSIFFLPPDAYTFLFPWLLQL YSLFVESPTITHCSWPRLQSGLP HYSGYHT*PS*LYLSDPPDIHPIS AYFLLSCSSP*SRLIY*WQFHQA *SPHTSKGRLCYSTSH*PAS*NL SFPFHRGNVSSRK*LCSVPSAIL LLL RDYSGPLPSLHIKLRDLPPP RTGKSAIYSTCPESGN*NTSWSR *TLICQS
19850	50218	A	19966	1382	1778	PIGTNTECVVLFQPMETGHSSR VNMSGYK*PC/PPLFGVLSWQN CWRVYPFCLLFGGPLSVMDE GSPSGC/SNSLGLGADSVTLSTG GVFQPNVRGLNCNGKIVMGRC PLEFVPIPATSPISRKKPERSTAF

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19851	50219	A	19967	239	737	RPSFKTPENSPTLVPTWTTLFYA LFFSYPHLPTSLIRPKYFNQIICF PDYSWSTATSHCCPSSQSK/CLL CV/SLTSPQYQPLPQDLPSA*SLP L*VPTPPLIPLEAALRNIAHSLSI PPPKNFRRSNTSTLFCFICLINIR RQECQASEPRPGHRIPCDLHVYI QMA
19852	50220	B	19968	1	1321	
19853	50221	A	19969	1	1069	
19854	50222	B	19970	758	6451	
19855	50223	A	19971	53	319	CSGSMPSSSSVSRPTSPFGSPLLS SPATSSSPKTPPTSATSGSSCPTT GL*MWTWSGFTGPVKAATWR WTSATYPRWSWRPRAPLCP
19856	50224	A	19972	1427	2103	RPVHGHLHAVPVWRDSVRGLA PSSSPRVPGRDLIKQTPRLRARV VLSPFKTADAAHSHPGLTQPGR GRMKADISAATPGPFMCRTPL ALGVSTEPSPARLVNLFVLCF VLRRSLALSPRLEVLWDLG\SL QPPPPGFKQFSCSLSPSSW\DYR CMPPWAG\QFLEF*VEDGV*HI GQADLELLTSGDPPASASQSAG ITGVSNRAQPQVSECGHGV ALRRQ
19857	50225	A	19973	3	320	VRMVIKKSENNRCWRKCGEIG MLLNCW*ECKLVQPVWKT/VD PAIPLGIIYPKDYISFYGKDTCT HMFIVALFTIAKTGNQPKCP SMIDWIKKMWHIYTMEYYAAI
19858	50226	A	19974	2	79	
19859	50227	A	19975	308	630	GREKAREQVDLTFTIAKTWN QPKCPSVIDWIKKIW/HIYTMGY YAAIKKDEFVSFAGTWMLK*T VSVEADPHIEGRFFRFKNYASK TPSLKLQRQSRPFQETSHPTGIE KRSPPNLQKATQPHIMSAKEYA FSRKMVGKTGRKKGEVKVRER KGKGAGRSDTIYNSKDLEPTQ MPISDRLDKENMDIYTMGYA AIAIKKDEFVSFAGTMDEAVNQG YSSRARTRHWSMKKILLQLAR CLPKWPLSFVLESQGLGGVGS

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19860	50228	A	19976	2	508	KTTMRYYLTPVRMAIIKKSENN RCWRGCGETRMILLHCWFECKL VQLLWKTW*FLKDVELKIPFD PAIPLLGVYPKDYKSCYYKDTC TRMFIAALFTIAKTWNQPKCPS VIDWIKKMWHIYTMEYYAAIK KDEFVSFAGTWMKLETIILSKL SQGQKTKHRMFSLISGS
19861	50229	A	19977	1926	2448	DFIAVITTRKQLKTKYNAHHSK QAITKHFSKISDLILCLKKKIM NRHFSKEDIYAACKHMKKCSP SLAIREMQIKTTMRYHLTPVRM AIIKKSGNNRCRRGCGEIGTLLH CWWDCCLVQPLCKSMWRFLR DLADPAIPLLGIIYPKDYKSCCYK DTCTRMFIAALFTIAKTWNQP
19862	50230	B	19978	1	1899	
19863	50231	A	19979	1	2142	MIILIDAEKAFDKIQPFMLKTL NKLIGIDGTYLKITRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LSPLLFNIVLEVLAQAIRQEKEI KGIQLGKEEVKLSLFADDMILY LENPIVSAQKLLKLISNVSKVSG YKINVQKSQAFLYTNNRQTESQ IMSEFPFTIATKRIKYLGIQLTRD VKDLFKKYKPLLNKIKEDTNK WKNIACSWIGRJINIMKMAFPR WELNNENTWTQEGEHTLGPV VGWGKRGGIALVDIPNVNDKL MVLEVLARAIRQKKEIKGIQLG KEEVKLSLFADDMIVYLENSIV SAQNLKLISNFSKVSGYKINVQ KSQAFLYTNNRQTESQIMSEFP FTIATKRIKYLGIQLTRDVKDLF KENYKPLLKEIREDTNKWKNIP CSRIGRJINIMKMAILPKVIYRFN DIPKLPMTFFTELEKTTLKFIW NQKRACIAKTILSKKNIAGGITL PDFKLYYKATVTKTAWYWYQ NRDIDQWNRTEASEVTSHIYNH LIFYKPDKNKKWGNDSLFNKW CWENWLAICRKLKLDPFLTPYT KIHSRWIKDLNVRPKTIKLEEN LGNTIQDIGMGKDFMTKTPKA MATKAKVDKWDVIKLSFCTA KETTIRVSRQPTWEKIFAIYPS DKGLISRIYKELKQIYRKKITNN PIKKWAKNMNRHFSKEDIYAA NRQMKKCSSSLVIREMQIKTTM
19864	50232	A	19980	1	5127	

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19865	50233	A	19981	209	3816	QGRPTFRFRKYREHHKDTFREE QLQDT*SSDSPKLK*RKKC*GQ PERKVKLPKGGSPD*KRISRQ/ KTLQARRQSWFFKINKIDRPQ ARLIKKKREKNQIDTIKNDKGD ITTDPTIEIQTIREYYKHLANK LENLEEMDKFLDTYTLPRLNQE EVESVNRPTGSEIEAITNSLPTK KSPGPDGFTAIFYQRYKEELVP FLLKLFQPIEKEGILPNSFYEASII LIPKGRDITTKGNFRPISLMNI DAKIL
19866	50234	A	19982	1	1698	MELKAKAQELREECRLRSRC NQLEESVSVMEDEMNMKREG KFREKRIKRNEQSLQEIWDYVK RPNLRLTGVHESDGENGTLEN TLQDIIQENFPNLRQANIQIEI QRTQRYSSRRATPRHIVRFTK VEMKEKMLRAAREKGWVTHK GKPIRLTVDLAETLQARREWG PIFNILKEKNFQPRISYPAKLSFI SEGEIKSFTDKQMLTDFVTTRP ALQELLKEALNMERKNRDTHR LKIKGWRKIYQANGKQKKAGV AILVSDKTDFKPTKILKDKEGH YIIVKGLIQEELTILNTYAPSTG APRFIKQVRSDLQRDLDSHTLII GDFNTPLSTLDRSTRQKVNKDT QELNSALHQADLIDIYRTLHPK STEYTFFSAPHHTYSKIDHIVGS KALLSKCKRTEIITNYLSDHSAI KLELRIKKLTQNHSTTWKLNNL LLNDYWVHNEMKAEIKMFFET NENKDTTYQNLWDTFKVVCTG KFIALNAHKRKQERSKIDTLTS QLKELEKQEQTTHSKASRRQEIT KIRAELEIETQKTL/QKINESRS WFFERINKIDRPL
19867	50235	A	19983	1	3450	
19868	50236	B	19984	1	2265	

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19869	50237	A	19985	1	2526	MFFETNENEDTSYQNLRDTFKV VFRWKIIALNAHKRKQERSKID TLTSKLKELEKQQQTNSKASRR HEITNIRAEELKEIETQKTLQKIN ESVNWFFEKIHKIDRLRLARIKK KREKNQIDSINKDIEDITDPVE TQTTVREYFKHLYANKLENLEE MDKFLDTYILPSLSQEEVEPLN RPITGSEIEAIINSLPTKKSPGPD RFTAKFYQRITNTEKCLKELME/ PESQSSRTT*RMQKPQESMRST GRKGFSDGR*NE*NE*RGAWN QVGKHSAGYYPGELPQTSKAG QHSDSGNTENATKILLEKSNSK TYNCQIHQS*NEGKNVKGSSQRE RNTNYHQRILOTPLRK*TRKSK EMDKFLDTYTLPRLNEEEEVESL NTPITGSEIVAIINSLPTKKSPGP DGFTAELYQRQTESQIMSELPF TIASKRIKYVGIRLIRDVKDLFK ENYKPLLSEIKEDTNKWKNI PC SWVGRJNIVKMAILPKVIYRFN APIKLPMPFFTELEKTTLNFIW NQKRAHIANSILSQKNKAGGIT LPDFKLYYKATVTKTAWYWY QNREIDEWNTTEPSEIMPHIYN YLIFDKPEKNKQWEKDSL FNK WCWENWLAICRKLKLDPFLTP YTKINSRWIKDLNVRPKTIKTLE ENLGNTIQDIGIGDDFMSKTPK AMATKAKIDRWDLIKLSFCT AKETTIRVNRQPTKWEKIFATY
19870	50238	A	19986	1	3723	
19871	50239	A	19987	1	1023	
19872	50240	B	19988	91	1596	
19873	50241	B	19989	1	3171	
19874	50242	A	19990	1	2952	MLLNQGRKLPRVFAEETLKFK GTSNKPQTLEQISTSIIAQKEAT VMVPGSNQEIPSGAYAIRALGF KHKTGRLFEQTLNYLQEF LFTP QWHLECQQERTVHSPGKAAEA REPSVIDRH LIQESSNWHLVGA ALGQSFQRKEQAAIFAVLQPLL VIPRQTGSGVDLQKTPTDLQQR GLIVRRKTNKQKGIVHNSTTRE QNWTENEFDKLTEGGFKRWVI TNSSELKEHVLTQCKEDKNLEK SAIKLELRINKLIQN
19875	50243	A	19991	1	1797	

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19876	50244	A	19992	1	2367	MVKGSIQQEELTNLNMYPNT GAPRFIKQVLSLDLQRLDSHTLI MGDFNTQLSTLDRSMRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYISDHS AIKLELRIKNLTQNCSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDTFKVVC RGKFIALNAHKRKQERSKTDTL TSQKLELEKQEQTTHSKASRRQE ITKIRAELEKEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDAIKNDKGDITTDPTIEQS TIREYYKHLTYTNKLENLEEMD KFLDTYTLPRLNQEEVESLNRPI TGAEIVAI/NNLPTKKSPGPDGF TAEFYQRK\EGILPNSFYEASILI PKPDRDTTKKENFRPISLMNID AKILNKILANRIQQHITKLIHHD QVGFIQGMQGWFNIRKSIRVIQ HINRTKDKNYMIISIDAEKAFD KIKQCFMLKTLNKLIGDGYFK IIRAIYDKPTANIILNGQKLEAFP LKTGTREGCPLSPLLFNIVLEVL ARAIQEKEIKGIQLGKEEVKLS LFADDMIVYLENPIVSAQNLLK LISNFSKVSGYKINVQKSQAFL YTNNRQTESQIMSELPFTIASKR IKYLGILQLTRDRKDLFKENYKP LLKEIKEDTNKWKNIPCSWVEK INIVKMAILPKVIYRFNAIPIKLP
19877	50245	A	19993	2	2910	WRKIYQANGK/QKKAGVAILVS DKTDFKPTKIKRDKEGHYIMVK GSIHQEELTILNIYAPNTGAPRFI KQVLSLDLQRLDSHTIIMGDFN TPLSTLDRSMRQKVNKDTQEF NSALHQADLIDIYRTLHPKSTE YTFFSAPYHTYSKIDHIVQSKAL LSKCKRSEIITNCLSDHSAIKLD LRIKKLTQNHSTTWKLNNNLLN NYWVHNEMKAEIKMFFETNEN KDTTYQNLWDTFKAVCRGIFIA LNAHKRKQETS
19878	50246	A	19994	1	4729	
19879	50247	A	19995	1	1566	
19880	50248	B	19996	1	2796	
19881	50249	B	19997	127	2479	
19882	50250	B	19998	1	2907	

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19883	50251	A	19999	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRLDLSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRIKNLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDTTYQNLWDTFKA VCRGK FIALNAHKRKQERSKIDTLTSQL KELEKQEQTHSKASRRQEITKIR AELKEIETQ
19884	50252	A	20000	1	2052	MGDFNTPLSTLDRSMRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLS DHS AIKLELRIKNLTQNRSTTWKLN NLLNLDYWVHNEMKAEIKMFF ETNENKDKTYQNLWDAFNAV CRGKFVALNAHKRKQEGSKID TLTSQLKELEKQEQTHSKASRR QEITKVRAELKEIETQKTLQKIN ESRSVARLIKKKREKNQI/DAIKN DKRDITIDPTEIQTIREYYKHL YANKLENLEEMDKFLDTYTL P RLNQEEVESLNR PITGSEIVAIIN SLPTKKSPGPEGFTA EFYQRYK EELVPFLLKLFQSTEKEGILPNS FYEASIIIPKGRD TT KENFRP ISLMNIDAKILNKILAKRIQQHI QKLIHHDQVG FIPGMQGW FNIC KSINVIQHINRTKDKNHMIISID AEKVFDKIQQRFMLKTLNKL V LEVLARAVRQEKKIKGIQLGKE ELKLSLFADD MIVYLENPIVSA QNLLKLISNFSKVSEYKINVQKS QAFLYTNNRQTESQIMSELPFTI ASKRIKYLGIQLTRDVKDLFKE NYKPLLKEIKEDVNKWKNI PCS WVGRINIVKMAILPKVIYRFNAI PIKLPM TSFTELEKTTFKFIWNH KGARIAKSILSQKNKAGGITLPD FKLYYKATVTKTAWY



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19885	50253	A	20001	1	2314	MDKFLDITYTLPRLNQEEVESLN RSITGSEIVAILNSLPTKSPGPD GFTAEFYQRYKEELVPFLKLKLF QSIEKEGILPNSFYEASIIIPKPG RDTSKKENFRPIPLMNIDAKILN KILAKRIQQHIKKLIHHDQVGFI PGMQGWFNIRKSINVIQHTNRA KDKNHMIISIDA EKAFDKIQQLF MLKTLNKL GIDGMYLKIRRAIY DKPTANIILNGQKLEAFPLKTGT RQGCPLSPLLFNIVLEVLARAIR QEKEIKGIQLGKEEVKLSL FAD DMIVYLENPIVSAQNLLKLISNF SKVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTLASKRIKYL G IQLTRDVKDLFKENYKPLLNEI KEDTNKWKNIPCSWVGRINIVK MAILPKVIYRLNAIPIKLPM PFF TELEKTTLKFIWNQKRARVAKS ILSQKNKAGGITLPDFKLYYKAI VTKTAWYWYQNRDIDQWNRT EPSEITPHINNYLIFDKPDKNKQ WGKDSL FNKWCWENGLAICRK LKLDPFLTPYTKINSR WIKDLN VRPKTRKTLEENLGITIQDIGMG KDFMSKTPKAMATKDKIDKW DLIKLSFCTAKETTIRVNRQPT KWEKIFATYSSDKGLISRIYNEL KOIYKKKTNNPIKKWAKDMNR HFSKEDIYA AKKHMKKCSSSLA IREMQIKTTMRYHLTPVRMAII KKSGNNRLFTVAKTWIQPKCA

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19886	50254	A	20002	1	2685	MGDFNTPLSTLDRSTRQKVNK DTQELNSAPHQADLIDIYRTLH PKSTEYTTFFSAPHHTYSKTDHIL GSKALLSECKRTEIITNYLSDDS AIKLELRIKNLTQNRSTTWKLN NLLDDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFVALNAHKRKQGRSKIDT LTSQLELEKQEQTTHSKASRRQ EITKIRAELEKETQKTQVKINES RSWFFERINKIDRQLARLIKRR EKNLIDAIKNDKGDITTDPTIEI TTIREYYKHLIYANKLENLEEM DKFLDTYTLPRLNQEEVESLNR PITGSEIVAIINSLTTKSPGPDG FTAIFYQRAIRQEKEIKGIQLGK EEVKLSLFADDMIVYLENPIVS AQKLISNFSKVSGYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDTNKWKNI PCSW VGRINIVKMAILPKVIYRFNAIPI KLPMTFFTELKKTTLNFIWNQK RAHIAKS/VLSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN RDTDQWNRTEPSEIMPRIYNL IFDKPEKNKQWGKDSL FNKWC WKNWLAICRKLKLDPFLTPYT KINSRWIKDLNIRPKTIKLEEN LGITIQDIGMGKDFMSKTPKAM ATKAKIDKWDLIKLSFCTAKE TTNRVNRQPTKWEKIFATYSSD

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19887	50255	A	20003	1	2502	MTELTGIIQQPQIVLFEHKGHKL VQSSSDAGKVNRIYQHYEAS DKFNYTTGLAWKTAPEQTGKT VRKQQIKLNVKKMESRSKMQE HSSSPMEQSWRENDFDELREE AFRRSNYSELQEEIQTKGQEVK NFEKTLDEYITRITNTEKCLKEL MELKAKARELREECRLSRSCD QLEERVSVMEDEMNMKREG KFREKRIKRNEQSLQEKWDYV KTPNLRIGVPESDGENGTKLE NTLQDIIQENLPNLVRQANIQIQ EIQRTPQRYSSRRATPRHIIVRFT KVEMKEKMLRAAREKEIQTTIR EYYKHLIYANKLENLEEMDKFL DTYTLPRLNQEEVESLNRPTGS EIVAIINSLPTKKSP/GPVGFAT FCQRK\EGILSISFCEASIIIPKL GRDTTKKENFRPISLMTIDTKIF NKILANQIQQHKKLIHHDQVG FIPGMQGWFNICKSINVQIHNR TKDKNHMIISIDAEKAFDKIQQL FMLKTLNKLIGDGYFKIIRAIY DKPTANIILNGQKLEAFPLKTGT RQGCPLSPLLFNIVLEVLAGAIR QEKEIKGVQLGKEEVKLSLFAD DMIVYLENHIVSAQNLLKLISNF SKVSGYKINVQKSLAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLNEIK EDTNKWKNI PCSWVGRINIVK MAILSKVIYRFNAIPINLPITVFT
19888	50256	B	20004	1	2115	
19889	50257	A	20005	1	2382	
19890	50258	A	20006	1	2742	
19891	50259	A	20007	1	2250	
19892	50260	A	20008	1	2982	
19893	50261	A	20009	1	4791	
19894	50262	A	20010	1	2499	
19895	50263	A	20011	1	3259	
19896	50264	A	20012	1	3654	
19897	50265	A	20013	1	2391	

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19898	50266	A	20014	326	1158	LWICEVMVKQRSRILKICLQKQ WQKTLAMWLKPCMGTFLLQL C*LDIAWV/RAIAVHTASSNLVP SLLGLCMIDVVEGTAMDALNS MQNFLRGRPKTFKSLENAIEWS VKSGQIRNLESARVSMVGQVK QCEGITSPEGSKSIVEGIIIEEEE DEEGSESISKRRKEDDMETKKD HPYTWRIELAKTEKYWDGWFR GLSNLFLSCPIPKLLLLAGVDRL DKDLTIGQMGGKFQMQVLPQC GHAVHEDAPDKVAEAVATFLI RHRFAEPIGGFQCVFPGC
19899	50267	A	20015	1	2860	
19900	50268	A	20016	1	2956	
19901	50269	A	20017	1	3359	MNNSIKEKVKLSLTKWEMQTK PNNNTVDLKDAQEVNLTSTDY RKQHVMLPTEINSDDSLKIGVI RLANWIKSQDPSVCCNQETHLT CRDTHRLKIKGWRKIYQANGK QKKAGVAILVSDKTDFKPTKIK RDKEGHYIMVKGSIQQEELTIL NTYAPNTGAPRFIKQVLSDLQR DLDSYTLIMGDFNTPLSTLDRS TRQKVNKDTQELNSALHQVDL IDIYRTLHPKSTEYTFFSAPHHT YSKIDHILGSKALLS
19902	50270	A	20018	3	3130	
19903	50271	B	20019	8	2398	
19904	50272	A	20020	3	3398	SNSHITILTLNVNGLNAPIKRHR LANWIKISQDPSVSCIQETHLTC RDTHRLKIKGWRKIYQANGKQ KKSTVAILVSDKTDFKPTKIKR DKEGHYIMVKG*IQ*EELTILNI YAPNTGAPRFIKQVLRDLQRDL DSHPIMGDFNTPLSTLDRSMR QKVNKDIQDLNSALHQADLTDI YRTLHPKSTEYTFSPPHHTYSK TDHIVGSKALVSKCKRTEIITNC LSDHSAIKLELRIKLTQNRSTT WKLNNL
19905	50273	B	20021	483	2210	

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19906	50274	A	20022	1	5316	MVKGSIHQEELTILNIYAPNTG APRFIKQVLSLDLQRDLDFTLI MGDFNTPLSTMDRSTRQKVNK DIQELNSALHQADLIDIYRTLHP KSTEYTFYSAPHHTYSKIDHILG SKALPSKCKRTDIITNYLSDHSA IKLELRIKNLTQNHSTTWKLNN LLLNDYWVHNEMKAEIKMFFE TNENKDTTYENLWDAFKAVCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTTHSKASRRQEI TKIRAEQINKIDR
19907	50275	A	20023	2	2712	WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYIMVK GSIQQEELTILNIYAPNTGAPTFI QQVLSLDLQRDLDSTLIIGDFN TPLSTSDRSTRQKVNKDTQELN SALHQADLIDIYRTLHPKSTEYT FFSAPHHTYSKIDHILGSKALLS KCKRTEIITNYLSDHSAIKLELM IKNLTQNHSTIWKLNNLLLNDY WVHKEMKAEIKMFFETNENKD TTYQNLWDTFKAVCRGKFIAL NAHKRKQERSKIDTLTSQKEL EKQEQTLSKASRRQEITKIRAEI KEIETQKTLQKINESRSRFFERIN KIDR*TLARVIKKKGEKNQIDTI KNDKGDITDPTEIQTITRESYK HLYANKLENLEEMDKFLDTYT LPRLNQEEVESLNRPI TGSEIVAI VNSLPTKKSPGPDGFTAIFYQR YKEELVPFLKLLQSIEKEGILP HSFYEASIILIPKGRDITTKKEN FRPISLMNIDAKILNKILANQIQ QHIKKLIHHDQVGFIPGMQGW NTCKSINVIQHINRTKDKNHMII SIDAEKAFDKIQPFMLKTLNK LVLEVLARAIQEKEIKGIQLGK EEVKLSLFADDMIVDLENPIVS AQNLLKLISNFSKVSQYKINVQ KSQAFLYNNNRQTESQIMSELA FTIASKRIKYLGIQLTRDVKDLF NENYKPLLNEIQEDTNKWKNIP CSWVGRJINIVKMAILPKVIYRF

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19908	50276	A	20024	1	4461	MVASRSSRVGVFYGGQNSVDG VSRSDGSLNELCLYRPPTGAY LAYDTLDVLP SQFTVNTPPID VNGKSLLALLWEHTSLLTSMG GGRWAMQPLGQLGQLEHLGD RRDQVLDRSGRSRRLDAAQHL RHRPDRRPQGMVGVLTNQKEP RTRWIHSRILPEVQGGTGTVPSE TIPIDRKEGILPNLFDEASIILIPK RGRDTTKKENFRPISLMNIDAKI LNKILANRNQQHIKKLIHHDQV GFIPGMQGWFNICK
19909	50277	B	20025	1183	4247	
19910	50278	A	20026	1	2671	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSLDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDINRTLH PKSTEYTFPSAPHHTYSKIDHIV GSKALLSKCKRTEITNYLSDHS AIKLELRKLNLTQSRSTPWKLN NLLLNDYWVHNEMKAEIKMFF ETNKNKDDTTYQNLWDAFKAV CRGKFIALNAYKRKQERSKIDT LTSQLEKEKQEQT HSKASRRQ EITKJRAELKEIETQKTLQKINES RSWFFERINKIDRPLARLIKKKR EKNQIDTIKNDKGDITDPTIEIQ TTIREYYKHL YANKLENLEEM DTFLD TYTLPRLNQEEVESLNR PITGSEIVAIINSLPTKKSPGPDG FTAIFY/PESYL*QTHSQYHTEW AKTGSIPFENWHKTGMPSLTAP IQHSVGSSGQGNQAGEGNKGY SIRKRGSIQVPVCR*HDCLSRKP HRLSPKSP*ADKQLQQLRIQN QCTKITSILIHQKQTNREPTHE* TPIHNCFKENKIPRNPTYKGCEG PLQGELQTTAQRNKRGHKQME EHSMLMGRKNQYRENGHTAQ GNLQIQCHPLQATNDFLHRIGK NYFKVHMEPKKSPHRQVNP KP KEQSWRHHTT*LQTILQGYSNQ NSMVLVPKQRYRSMEQNRAL RNNAAYLHYS D\I*QT*EKQA WGKGIP\IYKMA\I\GKLAS\PM*

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19911	50279	A	20027	1	3159	MGDFNTPLSTLDRSSRQKVNK DTQELNSTLHHADLIDIYRTLHP KSTEYTFFSAPHHTYSKIDHVV GSKALLSKCKRTEIITNCLSDHS AIKPELRIKKLTQNRSTTWKLN NLLLNDYWVHNKMKAEIKMFF ETNENKDTTYQNLWDTFKAVS RGKFIALNAHKRKQKRCKIDTL ASQLKEVEKQEQTHSKASRRQ EITKIRAELEIETQKTLQKISES WSWFFEKINKIDRPQARLIKKK REKNQIDTIKND
19912	50280	A	20028	2	3767	HLRANWIKSQDPSVCCIQEAYL TCRDTHRLKIKGWRKIYQANG KQKKAGVAILVSDKTDFKPTKI KRDKEGLYIMVKGSI PREELTIL NIYAPNPEAPRFTKQVLSDLQR DVDSHTIILGDFNTPLSALDRSM RQKVNKDTQELNSALHQADLI DIYRTLHPKSTEYTFFSAPHHTY SKIDHRVGSKALLSKCKRSEIIT NCLSDHSAIKLELRIKKLTQNC TTWKLNNLLLNDYWVHNEMK AEIKMFFETNEN
19913	50281	A	20029	3311	9648	KLYVCITRITNAEYKELMEL KAKAQELCEECSRLSRHDQLE ERVSVMEDQMNMKQEEKFRE KRRKRNEQSLQEIWDYVKRPN LRLIGVPESDGENGTKLENTLQ DIIQKNFPNLARQANIYIQEI QRTQPQRYSPRRATPRHIIVRFTK VDMKEKMLRAVREKGFKPTKI RRDKEGHYIMVKGSIQEEELTI LNIYAPNTGGPRFIKQVLSDLQ RDLDSTIIMGDFNTPLSTLDRS MRQKINKDIQEL
19914	50282	A	20030	2031	6332	QDSNSHITILTNIINGLNAPI*R HDARNCNWIKSQDPSVCCIQUET HLTCRDTHRLKIKGWRKIYQA NGKQKKKAGVAILVSDKTDFN PTKIKRDKEGHYIMVKGSIQEE ELTILNIYAPNTGAPRFIKQVLS DLQRDLDSHTLIIMGDFNTPLS TLDRSRQKVNKDTQELNSAL HQADLADIYRTLHPKSTEYTF SAPHHTYSKIDHIVGSKALLSK CKRTGIITNYLSHSAIKLELRI KNLTQSR
19915	50283	A	20031	2	178	
19916	50284	C	20032	88	228	

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19917	50285	A	20033	3	382	VDRTIMSDSLVVCEVDPELTERK LRKFRFRKETDNAAIIMKVDKD RQMVVLEEEFQ\FVVYSYKYV HDDGRVSYPLCFIFSSPVGCKPE QQMMYAGSKTRLVQTAELTK VQTGMWLQSVRERWCGSWV
19918	50286	A	20034	89	633	KTAELRKEEACGQNNHALPGS LRQSDSLVVCEVDPELTERKLRK FRFRKETDNAAIIMKVDKD/RG QMVVLEEEFQ\NISPORELKMG FPRRDKPR\FVVYSYKYVHD\D G\RVSYPLCFIFPPRPVGCKPEVQ QMMYVAGSKNRLV\QTAELTK GVPKSRTT*LTSLRPWL\QEKLS FLSLISGAGD
19919	50287	A	20035	78	638	WDLTWKESSADSQFLFEKMD HSHHMGMSYMDSNSTMQPSH HHPTTSASHSHGGGDSSMMM MPMTFYFGFKNVELLFSGLVIN TAGEMAGAFVAVFLL\AMFYE GLKIARESLLRKSQVSIRYNSMP VP\GQNG\TILYGRTHKTVG\QQ\ MLSFPHLLQTVLHIIQV\VISYFL MLIFMTYNGYLCIAVA
19920	50288	A	20036	1	849	MSQKMENLIGNAHISAYEIIKEF QKEQHQAAGLPGTTVPCSCQVY KCKRPERVAREGPSEDLPLP QTVRKCGQGCTLHGAGGSQGG VGARPFGIGGVEALWFLASPSY WAPLIPQCQLGKLLVVRLVQL QARRELAPMLAPGAACPMVAT ACLTVQWPDPMLTHTPLTIPHL TCSLLGGNVELLFSSLVINTAGE MAGAFVAVIILAVFYEG\IAQE SLL*PNGTILM*THKTVGQQML SFPHLLQTVLHIIQVVISYLLMLI FMTYNGSSSELLFRGERPR
19921	50289	B	20037	308	568	
19922	50290	A	20038	394	528	
19923	50291	A	20039	186	856	TWKGKDILRRPRRKMSY/SHF FVQTCRGG\HKKKHPRLLQVN\ FSEF\SKEVLQRGWRPMSCLKR KGKILKIWAKAGQGPFLERELK TLYPLPKGEDQKKKFKDPNCTP RGPPS\AFFLLALEYPPQKSKG EHPWPVPLVDVAEENWETMW ELTLLQMDKQPYEKKA\AKLK EKYEKDIACISSLKGGKPDAAKK RELSRPEKSKKKKEEEDEEDE EDEEEDEDE*DEEDEEEDEDE



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19924	50292	A	20040	1	413	GAMRGDRGRGRGGRFGSRGGP GGGFRPFVPHIPDFYLCEMAFP RVKPAPDETSFSEALLKRNQDL APNSAEQASILSLVTKINNGNE KL\VGSPGTLKAHIEKFTRGIPY KRGTVSRGHNVADLGGKCLKIL\PPLEAV
19925	50293	A	20041	70	1451	GAMRGDRGRGRGGRFGSRGGP GGGFKPFVPHIPDFYLCEMAF\PRVKPAPDETSFS*GLA*RRNQD\APNSAEQ\ASILSLVTKINNVIDNLTCSQGHFEVAKLEEVA RQVGDPPIKRGTMTTGHNVA*/LWVVIPQEFWQRLEAIVACPGGN KVVESLR/SHQDPSESFKPCLTNEVTGFEISSDATVKILITT\VPP\NLRKLDPELHLDIKVLQSALAAI RHARWFEENASQSTVKVLIRLLKDLRIRFPG\FEPLTPWILDLLG\HY\AVMNNPTRQPLGLKRWHN RALAWQISGLAGTVSCQG\SVGYSIDPCESWQL*ELHTVMTLEQ Q\DMV\CYTAQ\TFVRILP\HGGFRKILG\QEVDA SYLASEIST\WD GVIVTPFRKRLYEKPPEK\KEGEEEEENTEEPTSRRGRRK\HGN\SGVTIPLPLLFPNPRGKTGALSC PAYWALHGDHRHFPWDREDSRK
19926	50294	A	20042	253	379	
19927	50295	A	20043	284	1062	APRNYLPQRATASVRRQQISFS NEHTPHQSLHEIPNVRQRHSGL MKLNTMGAMTTSTTS AVANH* PSNKRTPLVSV/MQSASPEQRQ AVRERMQTNPKIQQRREAARE RIQSASPEQRQAVREKMQTNPQ NQQRDAARERIQSASPEQRQV FKEKVQQRPLNQQRDNARQR VQSASPEQRQVFREKVQESRPQ RLNDSNHTVRLNNEQRS AVCE RLSERGARRLESLYGRHMQAN PEPPKKNNDKSKKISRKPLAAK

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19928	50296	A	20044	1	2269	MSPDIPQVSPEVGLYPVANHSSI VVPTCHSLSEEDTEAQRNHELD TVKALREDAQVLKIPNQSPKDT LVTALQLAQKGTAAAIRLGA KVGQKQSRQAKSSPALVVPGL LSFPRARFFEWQSPGLPNTAAM ENGTGPYGEERPREVQETTVTE GAAKIAFPSANEVFYNPVQEFN RDLTCAVITEFARIQLGAKGIQI KVPGEKDTQKVVDLSEQEEE KVELKESENLASGDQPRTAAV GEICEEGLHVLEGLAASGLRSIR FALEVPLGRSVVANDASTRAV DLIRRNVLNDVAHLVQPSQA DARMLMYQHQRVSERFDVIDL DPYGSPATFLDAAVQAVSEGG LLCVTCTDMAVLAGNSGETCY SKYGAMALKSRACHEMALRIV LHSLDLRANCYQRFVPLLSIS ADFYVRVFRVFTGQAKVKAS ASKQALVFQCVGCGAFHLQRL GKASGVPSGRAKFSACGPPVT PECEHCGQRHQLGGPMWAEPI HDLDFVGRVLEAVSANPGRFH TSERIRGVLSVITEELPDVPLY TLDQLSSTIHCNTPSLLQLRSAL LHADFRVSLSHACKNAVKTDA PASALWDIMRCWEKECPVKRE RLSETSPAFRILSVEPRLQANFT IREDANPSSRQRGLKRFQANP EANWGP RP RS RP GGKAADEA MEERIRLLQNK RK EP PEDVA
19929	50297	A	20045	1578	2356	PLRRWACNHKLQRQNAHQLSSTI HCNTPSLLQLRSALLHADFRV SLSHACKNAVKTDA PASALW DIMRCWEKECPVKRE RLSETSP AFRILSVEPRLQANFTIREDANP SSRQRGLKRFQANPEANWGP PRARP/GVSGGKVG VGLS QGKK G* RADGVPTPSPSHRGKAADE AMEERRLLQNK RK EP PEDVA QRAARLKTFPCKRFKEGTCQRG DQCCYSHSPPTPRVSADAAPDC PETSNTPTPGPGAAAGPGID

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence ( X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19930	50298	A	20046	1	791	MGPSSIHSSQHATAPQILPKVR AGPRSSGCRISECRREEKPPKGR RGLKDATRPGVNWGPDDGGVQS GAGAQPWSLTPLPPGSVSPAGR AQRRSMRAAAQERSPGRRRL GKEPLIRESWTRSAPWRCLSQD AGRAGSQVCGSSPQTRGAAAE KVAVTGAKSCSGRGKAAAAR AKSRGGGGRKTQKAAAKSRG C/AGQRSPKSRGSRG*IPRGRGQ KAAVAGAESNGGGGKKSRRRR HKAATRSSGGKNPWRQKAAS AGAK
19931	50299	C	20047	76	327	
19932	50300	A	20048	336	814	ANFSLEDPSCSPPRLLAGSFVD SPQSLSCMRKNPLLGS GSGPLS PTYIL*ATTPHLLPQPLITTSPSS PSPSPPLPPPPSFSSSYSSSSFF E/NRVPLCCPCFGSAIRKPSPSVS TKARPQGETGRSLALLFLPQRP SSSLHRSDTLYRDCVHRI
19933	50301	A	20049	1	310	
19934	50302	A	20050	1	1482	
19935	50303	A	20051	3	2455	
19936	50304	A	20052	3	1441	

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19937	50305	A	20053	1	2322	MAEGKGEAGTFFTGGQDRLLF VFFIITIVVGLFRCSVFSSSSSSSS LSSSSSSSSSSSLSSSFLHLFFIFIF VFFVFIFFVFIFVFVFAFFFIFFVF VFFFVFFFFVLLVEILMRPTISIR GQKLKISDEMSKDCLSILYNTC VCTEGVTKRLAEKNDVFVFLFT LMTSKKTFLQTATLIEDILGVK KEMIRLDEVPNLSSLVSNFDQQ QLANFCRILAVTISEMDTGND KHTLLAKNAQQKKSLSLGP AEINQAAALLSIPGFVERLCKLAT RKVSESTGTASFLQELEEWT WLDNALVLDALMRVANESEH NQASIVFPPPGASEENGLAHTS ARTQLPQSMKIMHEIMYKLEV LYVLCVLLMGRQRNQVHRMIA EFKLIPG\LNNLFDKLIWRKHS ASALVLHGHNHYCDCSPDITL\ KIQFLRLLQSFSDDHENVYLL NNQELNELSAISLKANIPVEAV LNTDRSLVCDGKRGLLTRLLQ VMKKEPAESSFRFWQARAVEE FPSRGTTSYADQMFLKRGLL EHILYCIVDSECKSRDVLQSYF DL\LGE\L\MKFNVDAFKRFNKYI NTDAKFQVFLK\Q\INSSLVDSN MLVRCVTLSLDRFENQVDMKV AEVLSECRLLAYISQVPTQMSF LFRLINIIHVQTLTQENVSCNL\ SLVILML\ARRKERLPL\YLRLL\ QR\MEHSSKKYPGLL\LNNFHN

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19938	50306	A	20054	237	2033	TSPTPLPLPATMPKTISVRVTM DAELAEFAIQPNTTGKQLFDQV VKTIWLEGKFGFFGLQNQDT\K GFST\WLKLN RKVD*PRNVRKE \SPLLFK\FRAKFYP\EDVSEELIQ DITQRLF\FLQVKEGILNDDIYCP \PETAVLLASYAVQSKYGDFNK EVHKSGYLAGDKLLPQRVLEQ HKLNRD\QWEERIQVWHEEHR GML/RGEDAVLEISERLLQDLE MYGVNYFS\KNKKGSELWLG VDALGLNIYEQNDR LTPKIGFP WSEIRNISFNDKKF\VIKPIDKK APDFVFYAPRLRINKRILALCM GNHELYMRRRKPD TIEVQQMK AQAREEKHQKQMERAMLENE RKKREMAEKEKEKIEREKEEL MERLKQIEEQTKKAQQEL\EEQ TPRAPGTLSQERKRAQSEAEKL AKERQEAEEAKEALLQASRDQ KKTQEQLALEMAELTARISQLE MARQKKESEAVEWQKQAMV QEDLEKTRAELKTAMSTPHVA EPAENEQDEQDENGAEAS\ADL RA*S\MAKDRSEEERTTEVAEKN ERVQKHLKALTSELANARDES KKTANDMIHAENMRLGRDKY KTLRQIRQGNTKQRIDEFESM

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19939	50307	A	20055	2	2230	PRVRLGAHGCPPGPRRCGCCW ANGLRSSERCVLRLPCVQSA TRGLRCGCDSAANLDTMAKPP QGAGDRGSIHDFPGFDPNQDAE ALYTAMKGFSGDKEAILEDITSR SNRQRQEGCHSYK\SLY GK\DLI ADLK\YELTGK\ERLIVRLMRP PAYCDAKEIK\DAISG\IGTDEK\ CLIEILASRTNEQMHQLVKRITK MPTERDLEADIIGDTS GHFQKM LV.VLLQGTREEDDVVSEDLVQ QDVQDLYEAGELK WGTDEAQF IYILGNRSKQHLRLVFDEYLKT TGKPIEASIRGELSGDFEKLMLA VVKCIRSTPEYFAERLFFKAMKG LGTRDNTLIRIMVSRSELDMLD IREIFRTKY*/EKS LYSMD/IKND TSG/QSYKKTLKLSSGDDDDAA DQFFPKAAQVAYQMWELSAV ARVELKGTVRPANDFNPDAD AKALR\KAMKGLGTDEDTIIDII THRSNVQRQQIRQTFKSHFGRD LMTDLKSEISGDLARLILGLMM PPAHYDAKQLKKAMEGAGTDE KALIEILATRTNAEIRAINIAYK \EDYHKSLEDALSSDTS GHFRRI LISLATGHREEGGENLDQARED AQVAAEILEIADTPSGDKTSLET RFMTILCTR\SYPHVRRVIQEFIR LTNYDVEHTIKK\EMSGDIRDA FVAIVQ\SAKTKPLFFPDK\LYK SMKG\AGTDEKTLTRIMVSRIG
19940	50308	A	20056	3	368	
19941	50309	A	20057	1	936	MMKCEEQKEEEEETVRMFSA SQPLDPDGTFLRLRFTAMVWW AITFPVFGFFFCIIWSLVFHFY VATDCGVSASSPAPGSGPG\PN YLPVSVAIGGEVPQRYVWRFC IGLHSAPRFLVA\FAYWNHYS CTSPCSCYRPLCRLNFGNLVVE NLALLVLTIVSSSEDTIHENAF IVFIASSLGHMLLTCLWRLTKK HTVSQEVRSIPSGGSKAAQKKI KDICPQDSGNGEDRKSYSWKQ RLFIIINFISFFSALAVYFRHNMY CEAGVYTIFAILEYTVVLTNMA FHMTAWWDFGNKELLITSQPE

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19942	50310	A	20058	119	930	ESLFPSLAFLSPSKPLFSHPSPFH LSNKQDTSPCSCVLSSPFSLRTE ASIGVPGIKMDGGNAQEHGHFL RLPQVPNYLPSVSSAIAREVPQR YVWRFCIGLHSAPRFLVAFAY WNHYLSCTSPCSCYRPLCRLNF GLNVVENLALLVLTIVSSSEDF /TWVPG*GRSGEVFPEGTGLPLP HSDLPTSWCGHSLQCGSQSSFP PAIHENAFIVFIASSLGHMLLTCI LWRLTKKH TVSQEVR SIPSGGS KAAQKKIKDIC PQDSNGEVGT EF
19943	50311	A	20059	3	206	
19944	50312	B	20060	80	304	
19945	50313	A	20061	1	2111	MAATGTAAAAATGRLLLLLLV GLTAPALALAGYIEALAANAGT GFAVAEPQIAMFCGKLNMHVN IQTGK WEPDPTG TKSCFETKEE VLQYCQEMYPELQITNVMEAN QRVSIDN WCRDRKKQCKSRFV TPFKCLVGEFVSDVLLVPEKCQ FFHKERMEVCENHQHWHTVV KEACLTQGMTLYSYGMLLPCG VDQFHGTEYVCCPQTKIIGSVS KEEEEEDEEEEEDEEEDYDV YKSEFPTEADLEDFTEAAVDED DEDEEEGEEVVEDRDYYYDTF KGDDYNEENPTEPGSDGTMSD KEITHDV KVPPTPLPTNDVDVY FETSADDNEHARFQKAKEQLEI RHRNRMDRVKKEWEEAELQA KNLPKAERQTLIQHFQAMVKA LEKEAASEKQQLVETHLARVE AMLNDRRRMALENYLAALQS DPPRPHRILQALRRYVRAENKD RLHTIRHYQHVLAVDPEKAA\Q MK\SQVMTHL\HVIERRNQSL LLYKVPYVA\QE\QEEIDDLVQ EQRADMDQFTASISETPVDVR VSSDESEEIPPFHPFHPFAPT* ERRILGVGRAGWGGLIGAEK VINSK\NKVDE\NMVH*TRLLD VKEMIFNAERVGG\LEERESV GPLREDFSL\SSSALIGLLVIAVA IATVIVISLVMLRKRQYGT\SH GIVE/VVDPMLTPEERHLNKM

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19946	50314	A	20062	61	2634	SQPAEGK WSTGNAATATAGVL LLPAACGA* TAPALALAGYIEA LAANAGTGFAVAEPSNSPMFC GKLNMP CETFQTGK\WEP\DPN QAPKSCF* NQKEEVSSSYFQEM YPRAYRSQNVMEAKPAGLRID N\WC\RRDKKQ\CKSRFCYTFSS CLVG*IL*SDVPAKFPEKVP SFF HK\ERMEVCE\NHQ\HWHTVSQ KKAMS*PPGK*PLIANGMPASP CGGRTSFHGTEY\VC*PSAQRLL GSCV/TKEEEEEEEEKEEEEEDE KGD\YAVYKGNFLL*ADLEDST EA\A VDEDDEREGEDVVEDR EYYYDTFKGDDYNEENPN\DPG SAATMSD\KEITHD\VKAVCSQE A\MTGPCRAVMPLWYFYLSKG KCVRFIYGCGGNRNF*SEDY CMAVCKAMIPPTPLSTNDDVDF F*TSKDDNEHARFHKAKEHVVI RPRNRMDRLK*EW*YAQL\QLK \NLPKAERQ\TLIQHF\QA\MVKA LEKEAA\SEKQQLVET/HTLARV EAM\ND\ARCLMALENYLAALQ SDP\PRPHR\ILQALRRYVRAEN KDRLHTIRHYQHVLAVDPEKA AQM\KSQVM\THLAHVIEERRNQ SLSLLYKVPYVAQEIQEEIDELL QEQRADMDQ\FTASISE\TPVDV \RVS\SEGRGEIPPFHPFHPFALP ENEDTQPV\LYHPMKKGSGVGE QDGLLIVAEK\VINSK\NKVDE
19947	50315	A	20063	734	1049	CCPPGGTGRCLGTCGYHN/CGC SI*SSDLPQR/CCVSGRR*TFWM VWSACVCASGCLPGGNRCCCP VLSPERIAVLGGLLPRKPPCRV VGERRSVLTLQATSQCPR
19948	50316	A	20064	6	1174	
19949	50317	A	20065	285	567	SRRRSSSYERSGSYSGRSPSPYG RRRSSSPFLSKRSLRSPLPSRKS MKSRSPAYSRHSSSHSKKKR SSSRSRHSSISPVRLPLNSSLGAE LSRKKKERAAAAAAKMDGK ESSYERSGSYSGRSPSPYGRRRS SSPFLSKRSLRSPLPSRKS MKS RSRSPAYSRHSSSHSKKKRSSSR SRHSSISPVRLPLNSSLGAELSR KKKERAAAAAAKMDGKESK GSPVFLPRKENSSVEAKDSGLE SKKLPRSV



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19950	50318	A	20066	214	805	LGLQAANDLHLEYAMGKRYFC DYCDRSFQDNLHNRKKHLNGL QHLKAKKVWYDMFRDAAAIL LDEQNKRPCRKFL\TGQRDFG SN\CRFS\HMSE\DLKEL\SIQVE EGRGEPREWLL\DAPEL\EGHL GGLGLEERRAKRLELQPQVSQ G*NPFRTT/VSFQ*PRRVGQPSS GSLPPNSCGHPPPGGLALLQPR VQWG
19951	50319	A	20067	2	418	
19952	50320	A	20068	1	1134	ATTARRRGAPGTPSLAAEGNGL SARVDEGVVEFFSKRLIQDRL WAPEEDPATEGGATVPVRTLK KLGTLFAFKKPRSTRGPRTDLE TSPGAAPRTRKTTFGDLLRPPT RPSRGEELGGAEGDTSSPDAG RSRPPTQEIARPTR*YCCLPRRR QRWVPDPTSGGPWSGEKQNW HPLNSGYK*CCRG*ASAEAAGV PKARGSKAKMARSRLAQM TLWTVPRRPLPSRSSPAPT/PVS ADPSCRPGPGSQGPESATWKT GQQLNAELRSRGWGQDGGPGP PSPGQSPSPCARTSPSPDSLGLPED PCLGPRNEERPLRLQSPVLKR RPKLEAPPSPSLGSGLGTEPLPP QPTEPSSPERSPPSPATDQRGGG
19953	50321	A	20069	3	206	
19954	50322	A	20070	3	349	
19955	50323	A	20071	226	610	
19956	50324	B	20072	18	1306	

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19957	50325	A	20073	3	1665	LRPQGREGGDWEGGRSPFSLPY GSLRGRVVSTAQFRVPMPSASA SRKSQEKPREIMDAAEDYAKER YGISSMIQSQEKPDRLVLRVRD LTIQKADEVVWVRARVHTSRA KGKQCFLILRQQQFNVQALVA VGDHASKQMVKFAANINKESI VDVEGVVRKVNQKIGSCTQQD VELHVQ\KIYVISL\AEPRLPLQL DDAVRPEAEGEEGRATVNQD TRLNDRVIDLRTSTSQA VRL\Q SGICHPLRETLINKGFVEIQTPKI ISAASEGGANVFTVSYFKNNA\ YLAQSPQLYKQMCICADFEKVF SIGPVFRAEDSNTHRHLTEFVG LDIEMAFNYHYHEVMEEIADT M\VQIFKGLQER\FQTEFQTVNK QFPCEAISNFWPTLRLEYCEAL AMLRGKLESEMG\DEDDLSTPN EK\LLG\HLVKEKYDT\DFYILD KYPIGL*RPF/HLYPCP*PPRNPQ QVPTLTNMFHEREKKYLSGAQ\ RIHNDPQL\TERALH\HGIDLEK IKAYIDSFRFGSPSP/HAGGGIGI/ ENRVTMLFLGLHNV\RQTSHVP
19958	50326	A	20074	3	424	
19959	50327	A	20075	178	859	
19960	50328	C	20076	304	592	

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19961	50329	A	20077	1381	2936	PTNPRPSPGLARWAESYEAKCE RRQEIRESRRCRPNVTTTCRQVG KTLRIQQREQLQARLQQFFRR RNLELEEKGKAQHPQAREQGP SRRPGQVTVLKEPLSCARRISSP REQVGRVKGHTAVCSGTLSSGQ GGWV/R/RPPSLHRACRES*DNC PSSLALTLSHPIHSSLERTQ*/I/SH ALTFWNSMIYPRSSRLIPQASD SSW/KGKGMMKFFLNKA WASMC SHLIFLSTGKHSEGYFHRLNLEL NEKNVFEPKAKESLQKVLEEK MNAEQQLQSTQVWGCHIDMG LGTPGSLGNKGSQQLQRTLGTQH RELESQHLVLQSKLQVPGTGGG EGRQGMGRRDGDERSCSAKIE CLQGDRDLCSLDTQDLQGTLLL GGLECMAAMAK*AKKKETEAF QILKVHRVFLGSWPTKGTQVW SPKSPNEVEPEGTGKEKDWDL RDQLQKKTLQLQAKEKEVRG* PEIVRAHLRNSRETWEAVKNCR EELNQSQQLPVRVRSLLPIKP WMMGRFLL*PSFAHKDNLMI
19962	50330	B	20078	1	1173	
19963	50331	A	20079	16	1584	SSRFLFSLGWLWEAPEVGTRSG WLQRRPGLGAGLGGIQEKQFL PALLSFFIYNPRFWPREGEEENK ILFYHPNEVEKNEKIRNVGLCE AIVQFTRTFSPSKPAKSLHTQKN RQFFMEPEENFWMVMVVRCP IEKQSKDGKPVIEYQEEELLDK VYSSVLRQCYSMYKLFNGTFPE SHGRRR/VKLLKERLEKFFHRY LQTLHLQSCDLLDIFGGISFFPL DKMTYLKIQSFINRMEESLNIV KYTAFLYNDQLIWSGLEQDDM RILYKYLTTSLFPRHNEPELAGR DSPIRAEMPGNLQHYGRFLTGP LNLNDPDAKCR/FPKIFVNTDDT YEELHL/VYKAMSAAVCFMID ASIHPTLADFCRRTGTASLGPQL HSGWASGHLVEQFNINKGDVP GLRK\EPQFKFIYFNHNMNLVEK STVHIEENAPACPLTSVHPDLM KIPR*PSNSDLYPRVDEDEGDH C*RALSDYWVVGK\KSDPAGS LYVIFEIQKNAKP*LKV*KRSK KPLCNASSNNILPSLD

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, v=possible nucleotide insertion)
19964	50332	A	20080	85	420	LSNLFHATNDGALTSTTIPHP MRQPTS/S/GDGSEIFLHTELKLL EPPHAWPQSCPPRL*MT RQQL PMTFLLKAHSGAGIESPGLNPR PGFSLHPVLPAASSAFLPSFR
19965	50333	A	20081	220	563	
19966	50334	B	20082	1	576	
19967	50335	A	20083	111	3586	TMFGLKPPLYFLPGSSLSESSP VSSPATNHSSPASTPKRVPMGP IVPPGGHVSVPSTPPVVTIAPT KT VNGVWRSESRQDAGRSSSGG RERLIVEPPLPQEKAGGPAIPSH LLSTPYPFGLSPSSVVQDSRFPP LNLQRPVHHVVPSTVTEDYLR SFRPYHTTDDL RMSSLPLGLD PATAAAYYHPSYLAPHFPHPA FRMDDSYCLSALRSPFYPIPTPG SLPPLHPSAMHLHLSGVRYPE LSHSSLAA
19968	50336	A	20084	576	1261	GDDLCSVGAPCRSTWACSTPLR CVRRSREFPGLPHAAGAARGFR LPAGRVPARPGAAAAAARAAA GEAHRPLPCGRRPGPVRAAVP PRPRPPRRGLRGRREGPAAPAG PGGPSLLCASAGRHPGLRAG QGLRDSAGEAGGEPAP/AGPRP EASP*RSSLCENTCTEAGLGPRR AAGDLGSPWLTSGLLWGSFFLF FLFFFVILRQSLLLSPKTEVAVA QLMSHCSL
19969	50337	A	20085	248	356	EGEEEGDEENDPD\MTQRRIKT QQSASSSEAGCMWP
19970	50338	A	20086	1043	1191	NFYFSCKNKNKANKQQITWK\ KGLSNGCKFILSGGRQKGR TLP Q RERMA

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19971	50339	A	20087	287	1401	CQNPQIPCSPFKKRLDG/LWVET PTGYIESLP/RRVVKRR/VNALKN LQVKCAQIEAKFFE/EKVHGFFE RKYAVL/YQPLFD/KRF/EIINAI YEPTE/EKECEWETR*RKDEDF GGNWKEKGQIEDEKKDEVEKE DPKG/IFPEFWLTVFK/NVDLLS DMVQEH/DEPILKHLKDIKVKF SDA/GQPMSEFVLEFHFEPNE/YF TNEVL/TRTYRMRSEP/DTRLIL DPFSFDGPEIMGCTGCQIDWKK GKNVTLKTY*GGGRKHKGRGT VVRTVTKTVSNDSESNFFPP/PE IPE/DVGDLDLDDAGSLFLAGRLS EIWFTFYRERIIPRSSVNILPGEA IEDDDDDYDEEGEEADEEGEEE GDEENDPRLLTQR/RIKTQQSAS
19972	50340	A	20088	1	350	DNLEAEA VAPCTAAARAVAPD LFVFAA*PESVSAGGPQQPCRSP IVKPGLPSFRPSSCTQPWLTHSW AEDVDLRVNFAMNVGKARGFF KKGDVVIVLTGWRPGSGFTNT MRVVPVP
19973	50341	A	20089	1	399	
19974	50342	A	20090	1	394	
19975	50343	B	20091	82	351	
19976	50344	A	20092	3	789	CGTSRMCHTTEELA/SDPIL/YRP LAVALDTKEPEI/RNGLIKSGST SEVELKKGATLKFTNRNAY/ME KCDENILWLDYKNICKVVEVG SKIYVDDGLISLQVKQKGADFL VTEVENGGSLSKKGVNLPGA AVDLPAVSEKDIQDLKFGVEQD VDMVFASFIRKASDVHEVRKV LGEKGKNIKIISKIENHEGVRRF DEILEALGHWAVVPLKPTLALA LTCFSSSLGLSSLHLSPPSTQLSC SKHSTLHLPFSPPTAAPPGLLL
19977	50345	A	20093	3	424	
19978	50346	A	20094	2	173	IYHLQLFEELR/RLAPITSDPTEA TAVGAVEASFCCSGAIIIVLTK SGRSAHQELGP
19979	50347	B	20095	1	1362	

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19980	50348	A	20096	1	1982	QRDNLEAEAVAPCTAAARA VAPDLLRLCSVRPSRSAPEDRQQP CLFSHSEAGTAFIQTTQLHAA\ MADTF/LWEHMCRL\DIDSPPIT ARNTG\IICITIGPGLPDQVETLK EDD*SLGMKCGSVLNFSSWEL HGVTMRETIQGMWRTANGKA FAFLTPFLLPGPLAVGFRTLKGP EIPNWGSSKGNGTAEVGA*RK GATLKFTLADNAYMEKC\DENI L\WLDYKNICK\VEVG\SKIYV DDGLISLQGKQK\GADFLVTEV ENGGS LGI\MKGVNLP\GAADV FACLCRRKDIQDLKFG\VE\QDV DMVF\ASFIPQSILMFHEVRKVL G\EKGDHQGLSSKIRESMRGF RRFDEILAEASDGI/LWVARG*F *ALRIPA EK\VF LAQKMIDLDRF NRA\GKP\VICATQMLESMIKKP RPTRA\EGSD\VANAVLDWKPT CIMLSWEKQPKGDYPLAEAVR MQHL\IAREARWLPSYHLQLF\ EELRPPGAQLTSDPTEATAVGVA VEASFKCC\SGAIIVLTKSGKVC SPRLARYRPRAPIIAVTRNSPGK LVRAHL\YRGIFPG\VCQGPDSR RAWA*DIG\LRVKLCHGMFGK ARGFFQERGDVVHCA*PEWRP WLPAPPNNMRVVPCCRDGPRG PSSSRPCSHPPFFPKPIFRPSNGL VELHSGAVNVATG

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19981	50349	A	20097	215	1893	TVTFSQCRFGKMLPLEKAFASP QELPSPAGSAHAGVSSRSSRK NPRPSLRGPLLTFESRLRFREF VYQEAAGPHQTLARLHELCRQ WLMPEARSKEQML/ESLLVLEQ FLGILPDKVRPWVVAQYPESCR SSLLVEGLADVLEEPGPSTVDR DAAGLPCGLILNS*RWSVREAH GPSAATRRAREPQPGPWSWGD PGTF*DTLAFSGPPVSGTEEGQ/ MKQRPKRTALP/HTEQVGGHE QVGGRSQ/RTTNVSEAEVLSRG PSAPGGVGPPGPC\EENLKSRYK LLWEGGRRQESAGCACEEAA PAGVGLSCLRRRPLGTPLPIPRR A\H*GGRAAWEGPGPAGPPGR GVRLCHRIAEAVRHPAACP/ET GARRNWEPRGRTPRMGTGRAS RA/CSSSGDSAGLEAGQGPAD EPGLSRGKPYACGECGEAFW LSHLMHHSSHGGRKRYACQG CWKTFHFSLALAEHQKTHGKE KSYALGGARGPQPSTREAQAG ARAGGPPEVEGRGSPRTPRGA EVSRCVFPFRRGRFAGRESQTR HWAFFRPWVAASCGVCGRPLP
19982	50350	A	20098	5	372	
19983	50351	A	20099	1	129	
19984	50352	A	20100	1	627	
19985	50353	A	20101	1	441	
19986	50354	B	20102	1	477	
19987	50355	A	20103	2007	2156	

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19988	50356	A	20104	1	717	MKLRTLAVSVTALKVARLGSA PSDVQMCLEFLPSDGAQLASP SGSRTGAAGGAACQSGAVRSY SSALGWSMGLGAVEQGVVLV GDARAAQEPMEWMGGSGMAG CRSRALHRGKAAKARREIEHSA GRKGLFGSARLIPATAMAPRSR LLSLGRRGNFRRSRVLRKSRPL EEAARRWRDCPTGFGALVAGA GSGRAPGVPPKRLPARTKAQVS RETRGSGEVTAQGGKGPRGLW ILLWGFYNLLPTTSHAESYPERL IQKVVSEKJARALARYLHLPFG LLGGNKTIVYSWEALRFHHQLT PSVITNTVIKVYEEPKLSQQKSR TLDVSTDEEDKIHHSSESKDDQ GLSSDSSSLGEKELSSTVKIPD AAFIQAARRKRELARAQDDYIS LDVQHTSSISGMKRESEDDPEIS RNEETSEESQEDEKQDTWEQQ QMRKAVKIIERDIDLSCGNGS SKVKKFDTSSISFPPVNLEIKKQL NTRLTLLQETHRSHLREYEKYV QDVKSSKSTIQNLESSSNQALN CKFYKSMKIYVENLIDCLNEKII NIQEIESSMHALLLKQAMTFMK RRQDELKHESTYLQQLSRKDET STSGNFSVDEKTQWILEEIESRR TKRRQARVLSGNCNHQEGTSS DDELPSAEMIDFQKSQGDILQK QKKVFEEVQDDFCNIQNILLKF QQWREKFPDSY YEAFISLC*RQ
19989	50357	A	20105	154	744	SQRNLCLGRVWYILFFLFAFLQ TLELVSHERRGRTGITNA*VSNS PRRELGFHVL*R*QFLLFLFSH RLRSPAGFT*WIPHRGCRWSCL PVLRLHALAFLSPWVVDGTGRR GAGGGARRGGSGHTGAHGVG GRLRHGRLQVPSPLRARSFLLS CTLSCQLDSPCLTCSQGHQYKY QHSDKGKRLTIVTKSFDFIPS
19990	50358	B	20106	1	531	
19991	50359	C	20107	99	323	
19992	50360	A	20108	305	658	
19993	50361	B	20109	79	936	



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19994	50362	A	20110	381	1169	LPSRGAGLGTCSPPCLSLPPTPW APVRPEPPQGAPPPAPRRPVPST TQGLRSASARHGTGRQLHLQP WCGIHWVKLAGLLSLVGSQHL RGQGSRAAAALTHMHS/PHAC THAHTRAEPRLRPPPRPLPPPL SPPPLRLCCLRLSFPCLTESAA KAGSKKFHVSQEIIPSPAVCELG VGTVLHIDPEKWRAGRENVET GGKRTGSGKDSTGRGWGQTD YGLGKKERTEEASRSCICLVCV SMRRDALCGQSVGSHFCQWSL
19995	50363	A	20111	3	4804	KRLNIQKTLEVAFSEAVWMQ PSVLLDDLDLIAGLPAPVEHE HSPDAVQSQRLAHALNDMIKE FISMGSLVALIATSQSQSLHPL LVSAQGVHIFQCVQHIQPPNQE QRCEILCNVIKNKLDCKINKFT DLDLQHVAKETGGFVARDFTV LVDRAIHSRLSRQSISTREKLVL TTLDFQKALRGFLPASLRSVNL HKPRDLGWDKIGGLHEVRQIL MDTIQLPAKYPELFANLPIRQRT GILLYGPPGTGKTL
19996	50364	A	20112	2	1844	
19997	50365	A	20113	746	1215	PNINRFLKHYREPVPKKRERNY STLWPLCPSTLNKIYTIMSYLSP ATKEYPFFLLLLLEQEC*AE*LLA LAVSQPLLSSTTNCLKN*MVTW NGSLIPWSPCKINLTP*/PAVVL QNRALDLLTAESGGTFLFLEE KCCCVVNQSGIITEKVKEIQGRI
19998	50366	A	20114	1	1338	
19999	50367	B	20115	1	4935	
20000	50368	A	20116	3	421	
20001	50369	C	20117	33	571	
20002	50370	A	20118	3	323	
20003	50371	A	20119	146	809	EKCRHNCSSRVWQSLVSQSVW ATEGQYGRTKNARPVQVKIDS ASFPYQRRYPLRLEAQQGLQKI VKDLKAQGLVKPFNSPCNTPIIL GVQKPNGQWKLVDLRIINEAI VPLYPAVPNPYTLLSQIPEEAE WFTVLDLKDAFFCIPVHRESQF LFAFEDPSNPTSQLTWTVLPQG FRNSPHLFGQALAQDLSQFSYL NTLVRLYLDDLLLAHLETCH
20004	50372	A	20120	3	1147	
20005	50373	A	20121	2	1658	

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20006	50374	A	20122	2	211	MGIYDFSYPFGCCLKSRRKSS RGSQE*LALSPGFSGSFGSIQDL TQV*CIQDSTPATLTAVGVDKM
20007	50375	B	20123	86	586	
20008	50376	A	20124	66	433	SSSRTEGARGKRQPMPS/STEP RVCLTIEGQEVNCLLDTGAAFS VLLSCPGQLSSRSVTI*GVLGQP VTRYFPQPLSCDWGTLLFSNAF LIMPESPTLLGRGILAKAGAIHH HAVLVTAAL
20009	50377	A	20125	1	459	MAVRYTDENVLRKGTREAGT MMRLRGTTTECCADFAAWDVT HDALRATGGELPGAQVMLTTT ECGRHVD FCDRAVWLPRMWG YPLALPGEMRKLYTVRMAGRD ILAKAGAIHHLNIGEGTPVRCPL L/EGINPEVWKTEGQYRQAKNA RPVQVKL
20010	50378	A	20126	260	392	VEVVILPMPVPNLPSIPARITKG RMGTLLLRGLGTT*LYKSCSV
20011	50379	A	20127	1	1740	
20012	50380	A	20128	1	858	MEWEDNLPLELGRTVAKLLSD HSQTPLGIQMFLFLSLSRKSPL VCLSYLFNFRFTLESEVQHLSG AITLTAWPKIPFLGIREAKSPRS ENTRLATILEAGHRHLGTSVSK DHPVTFWRPRDLQSDLKQIKI DLGKFSDNPDGYIDVLQELGQS FDLTWRDIMLLLNQTLTPNERS ATITAAREFGDLWYISQVVA AV AGLVSEAVKIIQGLTVWT/SHD VNGILTAKGDLWLSDNHLLKY QALLLEGPVRLRLTCATLNPAT FLPDNEEKIEHNCQQVIAQTYA
20013	50381	A	20129	1	6530	MWGSDRLAGAGGGGA AVTVA FTNARD CFLHLPRLVAQLHLL QNQAIEVVWSHQPAFLSWVEG RHFSDQGENVAEINRQVGQKL GLSNGGQELHAVSLEQHLLDQI RIVFPKAIFPVWVDQQT YIFIQI VALIPAASYGRLETDTKLLIQPK TRRAKENTFSKADA EYKKLHS YGRDQKGMMKELQTKQLQSN TVGITESNENESEIPVDSSSVAS LWTMIGSIFS FQSEKKQETSWG LTEINAFKNMQSKVVPL
20014	50382	B	20130	1231	2065	
20015	50383	A	20131	68	372	
20016	50384	A	20132	1	1461	

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20017	50385	A	20133	1	806	AVWCTHCCAPTPSGPVLPHSAA MSFLKSFPPGPAEGLLRQQPD TEAVLNGKGLGTGTLIAESRL SWLDGSGLGFSLEYPTISLHALS RDRSDCLGEHLYVMVNAKFEE ESKEPVADEEEEDSDDVEPITE FRFVPSDKSAF*FPCSVEAMFTA MCECQALHPDPEDESDDDYDG EEYDVEAHEQQGGDIPTFYTYE EGLSHLTAEG\QATLERLEGML SQ\SVSS\QYNMAGIVRTEDSIR DYIEDGDGRDLTTP\TVCLGQF EDADV
20018	50386	A	20134	225	420	RLLGDVCGRLRPRGHEEQRPG GPGARSHSRSGPRMGRDCAGA VPRVTPK*SACAAGGRGGPAT
20019	50387	A	20135	1	687	
20020	50388	A	20136	1	2979	MLRRKKQEDWAAKGSSHACG QIPEEREKGFVGNVAVANLGLD LGSLSARRFRVVSAGSRRFFE NRETGEMFVNDRLDREELCGT LPSCVTLELVVENPLELFSVEV VIQDINDNNPAFPTQEMKLEISE AVAPGTRFPLESAHDPDVGNS LQTYELSRNEYFALRVQTREDS TKYAELVLERALDREREPSLQL VLTALDGGTPALSASLPIHIKVL DANDNAPVFNQSLYRARVLED APSGTRVVQVLATD
20021	50389	A	20137	2	296	
20022	50390	A	20138	1187	1292	
20023	50391	A	20139	2	3250	LTSRWRPWPRPPTSASSAGWFC ASTGPWTAAPAKAPPSWASWT SRALRSSRPQTSRLWRR*PRSR AATPSSSGRGTCGIRPTSVFSTT RARSTTRPTSG**KTWTL*MTT SQ/RLHQSTDRLTAEIWKDVE GIVGLEQVSSIRATAHQVAAPV GVCSGQWDSS/HKESLSRLMAT LSNTNPSFVRCIVPNHEKRAGK LEPRLVLDQLRCNGVLEGIRICR QGFPNRILFQEFRQRYEILTPNA IPKGFMDGKQA
20024	50392	B	20140	1	1816	
20025	50393	A	20141	500	866	QVCLYPGWQHSPGRQRVSG*A HLHTAPLWICQ*SGDCDWHES* GGGM*CVR\FEPPTSSPPSATS GSLK*KEKTGLSNSPCSTSTSS GGRTPTDRMGKTRRQYPSGA GNSDKVGFPQVF
20026	50394	A	20142	130	226	

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20027	50395	A	20143	846	1555	GRKTPSQGRRWSSPRVFLLPGG PKPCYTYPLVGEKLLFRVLPFP HKPSASNLEKVSHCECGKTF RSSYLVRHQRIHTGEKPSQVPV ECGKGF**ALPT/CTAH/HYGTH TGERPYQCGQCGKSFNQSSSLI VHQRTHHTGEKPYQCIVCGKRF NASSQFSAHRRHTGESPYKCA VCGKIFNNSSHFAHRKTHTE KPYRCSHCERGFTKNSALTRHQ TVHMKAVLSSQEGRDAL
20028	50396	A	20144	93	764	AQERKALKSTPSHSSFSR/WLSR IILKNGSSSSSSSSSSSSSSSLRE RERKSCENVNITRNR/LTAETI ADTIDTSNGSVFLIWTER*EWN WLPKPWHQYQLQARASLSEEIL NNRWEQDPEAFRQDPEDQARS/ QWLPRGGSAPV\KQRLLLHDS VPDHAFLRTRAAGQDLPWETV RRPPDNPD LAPADFSLPCLGK LLAERRCFSLQRRVPWPENQP PHRQ
20029	50397	A	20145	1	433	
20030	50398	C	20146	312	443	
20031	50399	A	20147	1	94	
20032	50400	A	20148	2	122	DLLCPQMG*GWKLTALSLQCS LQDGIERSRAKASQCCLSI
20033	50401	C	20149	25	328	
20034	50402	C	20150	157	309	
20035	50403	B	20151	33	2996	
20036	50404	C	20152	167	274	
20037	50405	A	20153	3	130	AGAVQFQALGVPNKDTKSLEL HQPCKPR*GQDDNHRMSPVYV
20038	50406	A	20154	2	453	
20039	50407	A	20155	1	1317	
20040	50408	A	20156	1	1350	

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20041	50409	A	20157	970	2559	FPLAYSLLFPP/CSRLSRELLEV EPEVLQDSLDRCYSTPSSCLEQP DSCQPYGSSFYALEEKHVGFSL DVGEIEKKKGKGRRRRSTK KRRRRGRKEGEEDQNPPCPRLS RELLAEKEPEVLQDSLDRWYST PSVYLGLTDPQPCRSFYVLE QQRVGLAVDMDEIEKYQEVEE DQDPSCPR*L*AITDA*FCVDT WRCQVQKGQECVQFHVFNEG* ITPTDIAVGFHCSRCLGFHFFLP LSFTHLL*VDHTSKAVWQLHGI LSKFMENY*AHSFHDHCSLCVP RALTQSVL*PLHQCVTRPIR*AH FLLSLSLPLPVFLFHSFLPGGLS QHKGNNSLPH*WICPFSF*TVPY VSHEI*LGLCGF*FPLAYSLLFPT /CSRLSRELLDEKEPEVLQDSLDR RCYSTPSGYLELPDLGQPYSSA VYSLEEQLGLALDVDRICKD QEEEEEDQGPPCPRLSRELLEV EPEVLQDSLDRCYSTPSSCLEQP DSCQPYGSSFYALEEKHVGFSL DVGEIEKKKGKGRRRR
20042	50410	A	20158	2790	5320	LHLFCHKRQHGGISRALGSSKK PEMNILEISETLRPQLAEKKQOF RSLKEKCFLTQLAGFLANRQKK YKYEECKDLIKFMLRNERQFKE EKLAEQLKQAEELRQYKVVVH SQERELNQLREKLREGDASRS LYEHLQALLTPDEPKSQGQDL QEQLAEGCRLAQHLVQKLSPE NDEDEDEDVQVEEAKEVLESS APREVQKAESKVPEDSLEECA ITCSNSHGPCDSNQPHKNIKITF EEDEVNSTLVVDRE
20043	50411	A	20159	394	3251	GRRVCLFSEDEECKDLIKFMLR NERQFKEEKLAELKQAEELR QYKVLVHAQERELTQLREKLR EGRDASRSLNEHLQALLTPDEP DKSQGQDLQEQLAEGCRLTQH LVQKLSPENDNDDDEGVS/QVE VAEKVQKSSAPREMKAEEKE VPEDSLEECAITCSNSHGPYDSN QPHKKTITFEEDKVDSTLIGSS SHVEWEDAVHIIPENESDDEEE EEKGPVSPRNLQESEEEVWPQT PWHE*LSHLSIL

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20044	50412	A	20160	245	641	ILSVLIAVLCVVGKIPLKEPLCP AAGSAAEACVQGMPVIQVPC SQQRPSMCMWPRNACQSSRAL GGDESYVPKNRKSFTKHPVSSC /PSPSLGWGRG*/R/PGGPGRSPG LALGFPSFSGPAGFGQGTSSPRF
20045	50413	A	20161	7	194	RPLVESRGIPRSPAASFSTACPR NTASIPSAPSWWETAWTQTSS* APPVA*RPS*PSPESPL
20046	50414	A	20162	232	509	MGVLMHRRCTKAPAWAVATY EAPLHCQQLLGVVGVLAGDPS LLDLGGIHHQQPQGLPITVLHQA EEADLVLLRAVTDAAALPVEQ HRP*GAPGLLPPPDGGQ*SGDP AAAGGYLQGPRGLGPQPGHPP HPGAAGSAGEPRKWLP PRRGL WCSACA*GPPSTGPGEQRGPGD SG*FISASTSASRATSACRSFIT SQTEPPTWPSLAR PQSSGLARPP APGRTAAGRD**TLPPGK
20047	50415	A	20163	3	859	SLGGNKS RPT RRCCSGSRCRCR DKSAAVSGALWRGCRESRAP PPAPQTIPRAWPSPTAVLTHPLL AGPSRWGSSCTGAAPKPPPGRG PLRGSPALPAAPGCGGCPGWGP KPLGPWRYPPAAAGSPDHCPPS GGGSRPGAPQGGNRCRSARRT APPSCGCSEVGS L*WSPRSGPRP PGWFGWAGACGGSGGSFAASA ALA WEGPEQSQEALQPQSPQRP APAAAAAGAGPRLSSPRRRW SSPG*/HGIPWPTHASAALPAAG HRGSFSGILP*RAGKRSAMLST
20048	50416	B	20164	179	438	
20049	50417	A	20165	1	930	MESPWRQWRLRKVARSGGGR LSNKRKLHLKKKKKGERGGGG AEREKAAA AVAPGCKAGAGN AKKFVQNGPGTKESSASQVPTG PSAAGLLEFARGPLQTLFAWVS AAVSAEPRIFMIRECCCLIVPLE VLSQRSTWPCEFLISDCASNQ QDSMGVGPSEPGAGYNLLVRH FLSPSEKCSIRVGVARFSRVLPP PLLGISAARAAGGAARQAAQL REGSRCPRLTDIPHAPSTPPEQG HSAEGAAKEEPKRRSARLSAKP APAKVEAK/PKKA AAKDKSSD KQVQTKGKRGAKGKQAEVAN QETKEHLP AV
20050	50418	A	20166	199	419	

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20051	50419	B	20167	969	1313	
20052	50420	C	20168	481	738	
20053	50421	B	20169	56	3476	
20054	50422	A	20170	1	2679	
20055	50423	A	20171	1	1467	
20056	50424	A	20172	208	379	NPCKKGVLIQF*LKIHKRQFIC ADLEFVISE*CTRYPIVAFNWCK PSLLRRSTPVK
20057	50425	A	20173	1	921	
20058	50426	A	20174	197	355	
20059	50427	A	20175	1	3180	
20060	50428	A	20176	1	1309	
20061	50429	A	20177	1	2295	MFYNDVKKQQQMAALTKEKD QLSQSIVMYKSLFEASQQLNE MKCQVEEARLKEAQLRNELKI HNIDIPTTQQVPHIEALLKRKLS EQEELKKKPRRSCTLPNYTKGS GDVLGKIAHLAQIEDDRAAMVI SWHLASDMDCVVTLTDAARR IYDETQGRQQVPLDSIYKKT PDWKRSLPHFRNGKLYFKPIGD PVFARDLLTFPDNVEHCETVFG MLLGDTHILDNLDAANHRYKEV VKITHCPTLLTRDGR
20062	50430	A	20178	3	2550	
20063	50431	A	20179	256	3680	NRGLLFCFLFLHLHLKEHERHL ATVYVFPILSCTIYRSVLLTSSQ TIIYTHVGDREAQAALKLGRWS HPRTPNAVGA GPPEGAGGGD AVTSQSALLTFSRTRFASGAHA GAHPVLLRNEEKGAPALVAPI FSAEGPTCSLWWTLRPASTAGL KLPAASTRPSQRGLTADGGGP GGASVGTEEDGGGVGHRTVYL FDRREKESELGDRPLQVGERSD YAGFRAYETVKDGVTLYLLQS VNQLLLTATKERIDF
20064	50432	A	20180	8	267	RGEMPGERLKAEVFLPPSPLSPT QVVGPLHRVWS*IGNASSQRGE AQVRS*VSFSLRLEDSTPWIPGT RALRGCWLWRDFQTLQSG

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20065	50433	A	20181	1	3692	MNPIREMQVSGIALKGTMKGW TEL.PKSPVWTQGNKGRNYFTN LALSLLFEDDTKLNPYAGGDAI RVRISVGPFGKERFTVPGLASEC GKNSFLRFPSNSRRKQLCGRVH GSFLWFSMMSQSMGGDNLSSL DTNEAEIEPENMREKFFRSLAR LLENKSNNTKIFSKAKYCQLIK EVKEAKAKAKKESVDYRRLAR FDVILVQGNELIEAVNGETDK IRYYLHSEDLFDILHNTHLSIGH GGRTRMEKELQAKYK
20066	50434	A	20182	24	131	PVHKRWS*NDECYRHCTV***Q PGSEENNPALENR
20067	50435	C	20183	99	281	
20068	50436	A	20184	1	4200	MVILKDFMKFEMNSEEGDFLR TCDFFFLRHLVAVKQLAHVKV DRFFPRRQSLAESRTAGIRLQTN VQKMVSSFTTSDRKQTSPSSYS VSFIPEFHFLGPPTHCPQTAVSQ CDLLFQLHSPAELFPARTLPG GPRSPHLRVPAAPLQHDPRH TGPPLPPTANRGATPPLPLGPGA LERSGRLGELNSASSFRLRRDN PQSPAARPRGSHGLAGIEGERT LINYYCQERYFHVLLVASEGI KRYGSDPVFRFY
20069	50437	A	20185	1	1464	
20070	50438	A	20186	335	855	RIASMPRLPPRTQGRGSARLPSR ARPGLHWHHRHTMLPPKPRRW R/RALGPAEAGMLEKLEFEDEG ECAPPAAGPALPRPGRPTGTR GDPAPHLRRCPTASCVLKPRG RGGNRGGDAGAGELGLRGPCD LPSQNFLCFLVDVLKNGLLALQ LFSSNPTASCAESLMLRTPVI



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20071	50439	A	20187	2	1160	SARPAASPPAGERASQLMLIAV LLLPLRRRWRRALGPAAEAGML EKLEFEDEAVEDSESGVYMRF MRSHKCYDIVPTSSKLVVFDTT LQVKKAFFALVANGVRAAPLW VESKKQSFVGMILTITDFINILHR YYKSPMVQI/YMELEDHKNLET WRELYLQETFKPLVNISPDIAS LFGWLYTSLIKNKHRLPVIDPIS GNALYILTHKRILKFLQLFMSD MPKPAFMKQNLDELIGIGTYHN IAFIHPDTPHIALNIFV/EKDRIS ALP/VLWDESGKSW*IFNSPNLN VN*ILACLEENIPNNLR*STVTQ A/LQHRSQYFEGVVKCQLSWKF LETHRWTRIVRAEGPSGLVVV NEADSIVGHIISLDIL/QALILTP AGAKQKETETE
20072	50440	A	20188	58	205	
20073	50441	A	20189	347	1581	NPSPC/WAVFFQKDAITSKIQTF LSMLHLYN**/SSPSKENTRTVE KLYKCSVDIRKIRRFKKGVL RR*KPYVERNCRIFYQELGAR* DAVASILERCPEAIV*SPTAVN TQRKLWQLVCKNEEELIKLIEQ FPESFFTIDQENQKLVQFFQ DVGTKKCGH/CRLTAAPNCFV NPVEKNKQMVIEFFQESYLDL GGSEANMKSFGLLKLFKPKPFY FV*ISPTAIKETLEFLQEPFPPA LKFLQLPIPNKGLFQLCPKKY TE*YFLL*KCLLNAQIFMDP/VS N*VLKWPCPFILFLPVLEERM QGILLREGISIAQIRVETPMVLELT PQIVQYRIRKLNSSGYRIKDGHL ANLNGSKKEFEANFGKIQAKK ALQNLLRLSNYYDELTVGEC GNRKGRGTNVNTTL
20074	50442	A	20190	3	455	
20075	50443	C	20191	72	218	
20076	50444	A	20192	3	452	LGILLVDDFVNVLSSLA VYAED SEPESDGEAGIEAVGSAAEEKG GLVSDA YGEDDFSRLGGDEDG YEEEEEDENSRSQSEDDDDSETEKP EADDPKE/NSAQ*QRHPGLSKL MAQLVGLRGQKNHILNMIRDV TQQPQLSLAAHTPHTPFHLQ
20077	50445	A	20193	1	334	
20078	50446	A	20194	1	687	

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20079	50447	A	20195	1	1280	RPGCGNKMAGKKNVLSSLAAY A\*ISEPESDGEAGIEAVGSAAD EKGGLVSDAYGEDDFSRLGGD EDGYEEEEEDENSQRSEDDSET EKPEADDPKDNTAEKRDPQEL VASFSEVRNMSPEIKIPPEPP G\RCSNHLQDKIQKLYERKIKE GMDMNYIIQRKK\EFRNPSIYRE \RLIQFCAIDELGTNYPKDMFD PHGWSEDSYIEALAKAQKIEM GQIGKRPKKERNQKFEFCDGAP KKGTT/RTNATSTTTTTCQAQL FADCFRRGKRQVGIRAIPTSATKP KRTPPPKPPNTLTATLPS/V VVTVTHPSASGSKDPPVISCCG APIVKERPQVTLRGPPGLER DRAAPVTHCPVGGAHFVYFRT GTYSRCHLRGASVWHSRWKD RQHGSQALWTGSVHAPPGVCR LLKVPYSYLLASQKK
20080	50448	A	20196	1	542	MAYSAPEKSCTEGHESPH/HHT AGHSGWHGG*ALRQRGHSCP EGTRGHPQTLAP/HHQCPQHAA GLPR/HNQLLDH/WFRHHHHRH WHHHHHHHQ*FPECQPSTSHQ ANPHHRPDLHDRQAPDSGYEG VSPKRVAEANFSLGSAPQAAQ GRSHGQSPGVHGFSSHGSPAAS SDIMKRLPPGLF
20081	50449	A	20197	45	171	RKTRERIGHDVICNLL*C**SS/C GCGLS/CICS*IRHSKSSRKA
20082	50450	A	20198	277	467	GLGPHDYLYSILSIERSCCC*CC CCCCRRRRCCCC/CV*GCSRFL CSIAESTPSGALRRLRGGR
20083	50451	A	20199	1	1080	
20084	50452	A	20200	34	119	
20085	50453	A	20201	1798	1894	
20086	50454	A	20202	363	778	GLGPHDYLYSILSIERSCCC*CC CCCCRRRRCCCC/CV*GCSRFL CSIAESTPSGALRRLRGGRSGGS GGCCSPGGCREGGRGNTKPAT RCEVICGGGSGGGGARPAAPP GPDASRVCWFLNTSIVFFSCPF
20087	50455	A	20203	1	360	
20088	50456	B	20204	1	3681	
20089	50457	A	20205	1	293	
20090	50458	B	20206	38	282	

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20091	50459	A	20207	1	1124	VDTVKRLLIKLPVLAIQKRF DYDWERECAIKFNDYFEFPREL DMEPYTVAGVAKLEGDNVNPE SQLIQQSESESETAGSTKYRLV GVLVHSGQASGGHYYSYIIQRN GGDGERNRWYKFDDGDVTEC KMDDDEEMKNQCFGGEYMGE VFDHMMKRMSYRRQKRWWN AYILFYERMDTIDQDELIRYIS ELAITTRPHQIIMPSAIERSVRKQ NVQFMHNRMQYSMEYFQFMK KLLTCNGVYLNPPPGVAEKTQL LKLSVPATFMLVSLDEGPPIK YQYAEKGKLYSVVSQLIRCCNV SSRMQSSINDAETA FNKIQHRF MLKILNKQIEETYIKITRAIYD KPTANIILNGQMLEALPLNRNT
20092	50460	A	20208	1	1053	
20093	50461	A	20209	1	7785	MTATTRGSPVGGNDNQGPAPD GQSQPPLQQNTSSPDSSNENS PATPPDEQGQGDAPPQLEDEEP AFPHTDLAKLDDMINRPRWV PVLPGGELEVLLEAAIDLSKKG LDVKSEACQRFFRDGLTISFTKI LTDEAVSGWKFEIHVSLAFDFK GSDLHSDACEWEERCIINNTHR LVELWCGPSCPQDWFPLELL AMALNPHCKFHIYNGTRPCESV SSSVQLPEDEFARSPDRSPKG WLVDLLNKFGTLN
20094	50462	A	20210	1201	9141	ADKIAKICPVSSMTATTRGSPV GGNDNQGPAPDGQSQPPLQQN QTSSPDSSNENSPATPPDEQQ GDAPPQLEDEEPAFPHTDLAKL DDMINRPRWVVPVLPGGELEV KLEANIDLSKGLDVKSEACQR FFRDGLTISFTKILTDEAVSGWK FEIHRCLVELCVAKLSQDWFPL LELLAMALNPHCKFHIYNGTRP CESVSSSVQLPEDEFARSPDR SPKGWLVDLLNKFGTLNGFQIL HDRFINGSALNVQ
20095	50463	A	20211	2	710	

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20096	50464	A	20212	1	1703	RPLDVGGPAAGTPGVLSRPCPS TAALAPKPFCAAPRPQPDAPAC AGATGGSCADFDGVDVRRR SSGLWGPQPPLFPVKNYTEDPV AFKDVAVNFTQEEWALLDISQ KNLYREVMLETFWNLTSIGKK WKDQNIIEYEQNPRNFRSVT EEKVNEIKEDSHCGETFTPVPD DRLNFQKKKASPEVKSCDSFVC EVGLGNSSSNMIRGDTGHKA CECQEYGPKPWKSQQPKKAFR YHPSLRTQERDHTGKKPYACK ECGKNIIYHSSIQRHMOVHSGD GPYKCKFCGKAHCLSLYLIHE RTHTGEKPYECKQCGKSFSYSA THRIHERTHIGKPYECQECGK AFHSPRSCHRHERSHMGEKAY QCKECKGAFMCPRYVRRHERT HSRKKLYECKQCGKALSSLTSF QTHIR\MHSGERPYECKTCGKG FYSAKSFQRHEKTHSGEKPYKC KQCGKAFTRSFSRYHERHTG EKPYECKQCGKAFRSAPNLQL HGRTHTEKPYQCKECKGAFR SASQLRIHRRHTGEKPYECKK CGKAFRYVQNFRFHRTQTHK
20097	50465	A	20213	3	2413	

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20098	50466	A	20214	1	2124	MGKNTPMIQLSPGPFFHNSEYR FPVLSVSAFLLYTCEMFQDPVA FEDVAVIFTQEEWALLDISQRK LYREVMLETFRNLTSLGKRWK DQNIEYEHQNPRRNFRSLIEEK VNEIKDDSHCGETFTVPDDRLL NFQEKKASPEVKSCESFVCGEV GLGNSSFNMNIRGDIGHKAYEY QEYGPCKPCCKQPKKAFRYRPS FRTQERDHTGEKPNACKVCGK TFISHSSVRRHVMHSGDGPY KCKFCGKAFHCLRLYLIHERIH TGEKPCECKQCGKSFSYSATHR IHKRTHTEKPYEYQECGKAFH SPRSYRRHERIHMGEKAYQCKE CGKAFTCPRYVRIHERTHSRKN LYECKQCGKALSSLTSFQTHVR LHSGERPYECKICGKDFCSVNS FQRHEKIHSGEKPYKCKQCGK ALPHSSSLRYHVRTHTGEKPYE CKQCGKATHNGEKPYACEKCG KPFQSAQNLRIHERTQTHIMHS VERPYKCKICGRGFYSAKSFQI HEKSYTGEKPYECKQCGKAFV SFTSFRYHERTHTGENPYECKQ FGKAFRSVKNLRFHKRTHTE K/PL*IHEKTHTGRKHYECKQC GKAFTSSSSSFQYHERTH/S/GEK PYQCKQCAKAFISSTSFQYHER THMGEKPYECMPSGKAFISS\SS LQYHERTHTGEKPYEYKQCGK AFRSASHLQMHGRTHTEKPY
20099	50467	A	20215	23	265	
20100	50468	A	20216	40	470	
20101	50469	A	20217	235	392	

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20102	50470	A	20218	7	1439	EGADKMATSVGHRCLGLLHGV APWRSSLHPCEMTALSQSLQPL RKLPFRAFRTDARKIHTAPART MFLLRPLPILLVTGGGYAGYRQ YEKYRERELEKLGLEIPPKLAW SLGSVALYKSVPTRLL\SRWAG RLNQVGAAHTGLRRPRFTSL\YI WTFGVNMKEARVEDLHHYRN LSEFFRRKCLKPQARPVCGLHS/V GEA*PFPPAGNRTFSCLPSTAPL VSSVSGRGRMTRGGGGCCLGG GDPALPGSKPLLPFQISPSDGRIL NFGQVKNCVEQVKGVVTYSLE SFLGPRMCTEDLPFPPAASCDSF KNQLVTREGNELYHCVIYLAPG DYHCFHSPTDWTVSHRRHFPGS LMSVNPGMARWIKELFCHNER VVLTDGWKHGFFSLTAVGAT\ NWGSTRIYFDRDRNTNNPRHSK GSYNDFSFTVHTNREGVPMRK GEHLGEFNLGSTIVLIFEAPKDF NFQLKTGQKIRFGEALGSL
20103	50471	A	20219	170	1144	ARTRRLAPSPGCRRGPAVKKM RHEELTKTFQGPVVCCTPTS HVYMFKNKSGDSGDSSEESH RVVLRPRVKERHKSGVHQPPQ AGAGDVLLQRELAQEDSLNK LALQYGCKHSE*LTMA/NVADI KKVNNFIREQDLYALKSVKIPV RNHGILMETHKELKPLSPSSET TVTVLPEADTAGAGTGAQAG QLMGFFKGIDQDIERAVQSEIFL HESYCMDTSHQPLLPAPPKTPM DGADCGIQWWNAVFIMLLIGIV LPVFYLVYFKIQASGETPNSLNT TVIPNGSMAMGTVPQAPRLA VAVPAVTSADSQFSQTTQAGS
20104	50472	A	20220	1	626	RYSSTLTRPWTQTPRTRASPHS\ PVAGALTARSPPRPTKPSRAG VHASRRPPQDLGPIGKGSATK GPRHQKHHESITPPSRSPTEA PPGLNDDAQIPASQESVAPLWIP VTAP*AHRLVSSCEFGAAFESA GEEEGEGEVASQAQAVQA\GTQ TRR*GATSAPCGPVPEGASVPA L*AAGAAGRAEAERPPCVPAQ AVGLSGQPLS

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20105	50473	A	20221	2492	4619	WHSWRQQGWGAHLGSSATGP GC*QGRPTCVMRPAGT/TRPGE APIGSGTGAVEMPAREPGDEKP PAPFP*QRHFVPRAHLLFGTAL RSLPELMRRAVRNPRHLSAEE SLLFSLPGSPWKGWSSWNGQA PPLAPPAQGPLLPVPLSAGPGV AGERTVPSSPRWWRPHLFLAPT APSPPPCPTVSAPGHLLGVAQK PDCHPPASQRPRRHPLPFLPGEA FAE/SAANS*ISSISASFTFS*SSS WSLD\STKSSLPLHLPTLTSRV PGKFSALLSQFSASFSSHGLPSE SVAIGTCST/PGERAHSRQTCGP GSSAQSG*QEEGQCPQCRDSAG TCGRPRCSRHPAGHAGSEPRPL QRRSLHCSHTG*GAGIGHKART CGRKAPPRCPSETGHHSGVGY* PWRQSQQPAARGRARCGRPCP GACPAMAPQTQSEEGRRAPR/T NPAVPSEPAPR/STAGPRAGASV PPSPGPRGPAGPGAPS\AGRARRR APGATACSGGAVESG*PSL/GSA LSAQVAPEAARAPA*GPGQAA GAREEGPAWPCRSPPGPGPSQC AALPQK/GSALRSGGRRTLGPL LSHPSFKILLAGSGGVLDNSTSS ERSRATRSSICRPVVSESWTNN NGGDTGG\SSCDFYSPGPADGL SQGHSSDHTNLLLVLSSQKRHF PA*ALVQPHAPSPGTGTEPWPP AGPRTVPRPPSASSVAPSCWWV
20106	50474	A	20222	103	538	PQLSLPLLSIRDRIIRPSKCANLT LTLTVAARHGLQSLGKVGISRR MPPPANLPSLKAENKGNPNV NIVPKDGTGWASKQEHEEEK TPEVPPAQPKPGVAAPPEVAPA PKSWASNKQGGQGDGIQVK*Q FQQEFPSLQAAGDQK
20107	50475	C	20223	1	569	
20108	50476	A	20224	1	1095	

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20109	50477	A	20225	1	1970	MWKGFTILDSFKNISDSWEDVR ISTLTGVWKKLI\VTLMDDLEEF KTSVEEITLTQRKLFFVMESPV GPISPPQPPSVSAWNKPLTSFGS APSEGAKNQESGLEIGTDTIQ FGAPASNGNENEVVPVLSEKSA DKIPEPKEQRQKQPRAGPIKAQ KLPLDSPVDNK\EHKPGPIGKER SLKNRKVKDAQQVEPEGQEKP SPATVRSTDPVTTKETKAVSEM STEIGTMISVSSAEYGTNAKESV TDYTTTSSSLPNTVATNNTKME DTLVNMMESARKAWENSPNVR EKGSPVTSTAPPIATGVSSSASG PSTANYNSFSSASMPQIPVASVT PTASLSGAGTYTTSSLSTKSTTT SDPPNICKVKPQQLQTSSLPSAS HFSQLSCMPSLIAQQQQNPQVY VSQSAA/ATLTTACLS*WSTAQI PAFYMDTSHLFNTQHARLAPPS LAQQQGFQGLSRSQPAFMQS SLSQPSVVLSGTAIHNFPTVQH QELAKAQSGLAFQQTSTNTQPIPI LYEHQLGQASGLGGSQIDTHL LQVTVPLPASQLSLPNFGSTGQ PLIALPQTLQPPHQHTTPQAQA QSLSRPAQVSQPFRLIPAGTQ HSMIATTGKMSEMEKAFGSGI DIKPGTPPIAGRSTTPTSSP\SGL LLQVRTASPAK
20110	50478	A	20226	260	8485	VSTEMSEKSGQSTKAKDGKKY ATLSLNFNTSKGKSLETQKTTVA ARHGLQSLGKVGISR\RMPPPC* PPKFLKPE*QRANDPNVNIVPK DGTGWASKQEHEEEK\TPEVP PA\QPKPGVAAPPEVAPAPKSW ASNKQGGQGDGIQVNSQFQQE FPSLQAAVDQEKK\EKETNDDN YGP*PSLRPPNVACWRDGGKA AGSPSSSDQDEKLPGQDESTAG TSEQNDILKVVEKRIACGPPQA KLNGQQAALASQYR
20111	50479	A	20227	330	485	RQGDRVSLCCLGRS*TPGLK*F SHLDLLNCWDYRCETVHLAEI AQVSEKQI
20112	50480	C	20228	1189	1413	



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20113	50481	A	20229	1	407	MPFSLADCDSDQHCLLFAVVDL GTAKATSCMSDTFDFYSSSGNS ANLKEGGKSPAGPGKGPRGA QKRKYS GPWNRKESCKKHEGV KGAEGRGGTVASVRES/REPRF KMAAFSMHPC*RLSRHRGHLA QRCFCFCR
20114	50482	A	20230	1	408	HMDLAQPSQPVDELELSVLERQ PEENTPLNGADEVFPSLDDEEVPP AEANKESPWSSCNKNVVGRCK LWMIITSIFLGVITVIIIIGLCLAA VTYVDEDENEILELSSNKTFFIM LKIPEECVAEEELPHLLTERL**S L**HLGKWR**SST/GLHLPTTF LLQELQGLSLLASAGGTSSSKE GKTSSAPLRGVFSSGCRSSTESS SSSTGCEGWARM
20115	50483	C	20231	144	383	
20116	50484	A	20232	1	530	AKDSESRRMLRGYNPQQMSEG HRQKSEFYNRTASESNVYLSNF HYPDHSYKDQAFDTLSLDSSDS METSISACSPDNIS\SASTSNIARI EEMERLLKQAHAEKTRLLESRE REMEAKKRALEEEKRRREILEK RLQEETSQRQKLIEKEVKIRERQ RAQARPLTRYLPVRKEDFDL
20117	50485	B	20233	10	543	
20118	50486	A	20234	370	556	
20119	50487	A	20235	3	3160	TELQQLGQKTADGSPGLKRALI FALNFHSSPPGKDMAAVQRTL MALGSVA VTKDDGCGYRGEPS WHRKAQQNRRGFSEEQLRQG QNVIGLQMGSNKGASQAGMTG LSDPTPWTAHLGMYVQGNKAF VSPVRRIVVHEYNSQTFDYDI ALLQLSIAWPETLKQLIQPICIPP TGQVRVRSGEKCWVTGWGRRH EADNKGSLVLQQAEEVELIDQTL CVSTYGIITSRMLCAGIMSGKR DACKKRKLGTERTPGTQAAP
20120	50488	A	20236	231	873	KKFRALGSGVPGFRASGVQVA DEV\CRIFYDMKVR\KCS\TPEE DQDKERSAVIFCLSADKKCIIV E\EG\KEILVGDVGWNP*TDPF\R HFVG\MLP*KKIVRYAFVMDGK LLETGFGQKRKSLMFFFV\WAP EL\APLKK*K*SYCKLQGMFAFK KNFQGIKHECQA\NGPEDLNRA\ CIAEKL\GGSLIVAFEGCPCVDH HSVPQIEKLPMFNCYPLAI

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20121	50489	A	20237	915	1255	GHGQKPAGKKKKILAVRSGSEP AGGFQGY/RGGHGTAS/GSPGD DDSPGALWEQSPGPL*AWPGA VSEPMVCAEPVQEESGPQLPP PRHSRSPSGDSGQPGVPAERRRI MGMAA
20122	50490	A	20238	3	227	LLMDTF/FQIVLYL/GETIAQWR KAGYQDMPEYENFKHLLQAPL DDAQEILQARFMPVVKLRQPG NATVSDCVQNV
20123	50491	A	20239	1	642	RRDTIARNWANVQSQVRHIEQ AFDQEAAA\VLMARLG\VFEPK SKEGPDVLRWLDRLRLCQKF GQYTKEDPTSFRLSDSFSLYPQS MFHLRRSPFLQVFNNSPDESSY YRHHFARQDLTQSLIMIQPILYS YSFHGPPEPVLLDSSRFMPRI NTEHGGSQARFLLSKVNPSQTH NNLYAWGQETGAPILTDDVSL QVFMHLKLLAVSSAC
20124	50492	B	20240	20	277	
20125	50493	A	20241	1	3030	

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20126	50494	A	20242	1	2677	MAEVKVKVQPPDADPVEIENRI IELCHQFPHGITDQVIQNEPHI EAQQRAVA INRLLSMGQLDLL RSNTGLLYRIKDSQNAGKMKG SDNQEKL VYQIIEDAGNKG IWS RDIRYKSNLPLTEINKILKNLES KKLIKAVKSVALGIPAGCSVCP KCGASNHLSARFCGSCGICVKS LVKLSLDRSLALAAEPRPFSES LNIPLRSDVGTGRDIGTQTVGL FYPSGKLLAKKEQELASQKOR QEKMSDHKPLLT AISPGRNIG ENLQVIGLVKNFLSNIPQAPAT QAKMGKWDPRQRGAQSPLIFL YVVDTCLEEDDLQALKESLQM SLSLLPPDALVGLITFGRMVQV HELSCEGISKSYVFRGTKDLTA KQIQDMLGLTKPAMPMQQARP AQPQEHFPA SSRFLQPVHKID MNLTDLLGELQRDPWPVTQGK RPLRSTGVALSIAVGLLEGTFP NTGARIMLFTGGPPTQGGPMV VGDELKIPARSWHDIEKDNARF MKKATKHYEMLANRTAANGH CIDIYACALDQTGLLEMKCCAN LTGGYMVMGDSFN TSLFKQTF QRIFTKDFNGDFRMAFGATLDV KRVQVGERGREAKNKLWTVH AHSSWRALNTGLRSFDFIPGT REPVKILGRRLTSDLQIRNSPLE AAVQGGVSKTVSTVSLAHAMR AHPHLLMEDLRILVIDLDPQSS
20127	50495	B	20243	453	3318	
20128	50496	A	20244	2	1367	

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20129	50497	A	20245	1	1459	MLEGKYGPPPGSFQTRRTALAR SHTNTSPSTSPAANRLNALGIGE RDASPSWLGETQDQVKRQPGL SGSRKIPRCAMTYGSLGQQAA QAAGVHAPNVFVASLLCQFLQ FVYRNSMGWTGGADFSYSCQE GETKELWSSGHHLKACRAVAF SEDGQSEYWGRQAMWWKGA VSSTMTLGTFSPELITVSKDKAI HVL DVEQQQLERRVSKAHGAP INSLLLVDENVLATGDDTGGIC LWDQRKEGPLMDMRQHEEYIA DMALDPAKKLLLTATYCSTLY SGDGCLGIFNIKRRRFELLSEPQ SGDLTSVTLMKVQLVMWGKK VACGSSEGTIYLFNWNGFGATS DRFALRAESIDCMVPVTESLLC TGSTDGVIRAVNILPNRVVGSV GQHIGEPVEELALSHCGRFLAS SGHDQRLKFWDMAQLASCGG G*LPSAQKKGRTTAGSEQQDLE HR*LLRRTAARGSLHGSQKKR RRLGMTVTEGMN
20130	50498	A	20246	221	847	RHIFSSFGHVLAVSLGKFIFEST LFPSEARAARRRRPVQQWPRFK ARDLRGKKKEELLKQLDADLKV EAV/SQLRVAKVTGRIAASKLS KIRVVRKSIARVLTVINQTQKE NLRKFYKGKKYKPL\DLR\P*GR HRAMRPPASNQARRENLEGPK EAGSGKGAAFTRCGK*RGSR LRGRLCQ*KHKENLKTKKQQR KERLYPLRKYAVKA
20131	50499	A	20247	1	415	FFFFFECG*SFTNSFSVTIHRRIH NGEKSYECSDCGKSFNVLSSVK KHMRTHTGKKPYECNYCGKSF TSNSYLSVHTRMHN/TANVNSI TVGKAFIDLSCLR*HEQTLTRC MNHLLLCNKLPPKILWLQTKTL VISKFL

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20132	50500	A	20248	196	1768	RRSVLLPGCPVAVGVGTGWRLSS CPQLPLCLPCSQPLSEKDTQRA ESWLMSS*KAG/YKGLVTFEDV AVEFTQEEWALLDPAQRTL YR DVMLENCRNLASLGNQVDKPR LISQLEQEDKVMTEERGILSGTC PDVENPFKAKGLTPKLHVFRKE QSRNMKMERNHLGATLNECN QCFKVFSTKSSLTRHRKYSILGE RPYGCSECGKSYSSR\$YLA VHK RIHNGVKPYECNCGKTFSSRS YLTVHKRIHNGEKPYDCSYCG KTFSNS*YLRPHLRIHTGEKPYK CNQCFREFRNQSIFTRHKRVHT GEGHYVCNQCGKAFGTRSSLSS HYSIHTGEYPYECHDCGRTFRR RSNLTQHIRTHTGEKPYTCNEC GKSFTNSFCLTIHRRIHNGEKSY ECSDCGKSFNVLSVKKHMRT HTGKKPYECNYCGKSFTIGQGD GFEIVLPPPQLQQLIKAFFLGNT HCLSDRLSVQCIHYSIRYLHLNI HYLHYSIHYLHYSICYLHYSIM DPPQQSPHPLQHPLQNPLQ
20133	50501	A	20249	2	408	
20134	50502	A	20250	1	280	
20135	50503	A	20251	2	469	RGIREGEEFDVDLAGMEVAVG GWGRGLWLHRHQAGIRGQSLG WRCRPWVGAGGVQAASERPD LAGSIMGPEVGALRRASPVIVIQ SQAGAFLLSNTTCQQFRDPGFR GRYPASPHTLSLPPETAHL*LLL CLPAAGVLPHTWPLLD RQGWH RGHAR

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20136	50504	A	20252	1	1762	FRMAAPLVVLVAVTVRAAL FRSSLAEFISERVEVVSPLSSWK RVVEGLSLLDLGVSPYSGAVFH ETPLIIYLFHFLIDYAELVFMITD ALTAIALYFAIQDFNKVVFKKQ KLLLELDQYAPDVAELIRTPME MRYIPLKAAIFYLLNPYILSCV AKSTCAINNTLIAFFILTTIKGKA LKGEYKGS AFLSAIFLALATYQ SLYPLTLFVPGLLYLLQRQYIPV KMKSKAFWIFSWWEYAMMYVG SLVVIICLSFFLLSSWDFIPAVYG FILSVPDLTNPIGNLFWYFFAEM FEHFSLFFVCVFQINVFFYTIPLA IKLKEHPIFFMFIQIAVIAIFKSYP TVGDVALYMAFFPVWNHLYRF LRNIFVLTCTIIIVCSLLFPVLWHL WIYAGSANSNFF*GITLTFNVG QLPHELFIMVPEGGGPGALMA AIERNVDRAVPGGSAERDPIER STLHILLISDYFYAFLRREYYLT HGLYLTPQGIAPEAMLVLQSRP GWHRASWTLRGLVGPEAGPKL SSPELPAGECLGRRGSSPRVTSS LVPKRDPWLTDKAYGEELGA PQLGPPPCGSAHQGAPSQTGRR
20137	50505	B	20253	102	406	
20138	50506	B	20254	200	408	
20139	50507	B	20255	347	458	
20140	50508	A	20256	2	430	
20141	50509	A	20257	3	567	
20142	50510	B	20258	1	1317	
20143	50511	A	20259	928	2067	
20144	50512	A	20260	2	4498	VHELQSLSEMLKPEVLSPTVKG KLLTGIKSPRSYTPKPNPVTHVI STGIQKIWIGATVGSTEVSVAV TPDGYADAVRGDRFMMPAERR LPLSFVLDVLEGRAQHPGVLYV QKQCSNLPSELPQLLPDLESHV PWASEALVHKHHYENLYCVVS GEKHFLFHPPSDRPFIPYELYTP ATYQLTEEGTFKVVDEEAMEK VSVLFLGSREGEQKPGSEEQA QKIWGV EAAVQRLGMLEAGIL PQEGRFQALAEIADI

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20145	50513	A	20261	3	3137	DTPAWHGDANRTKAALEAARS DYLEFPFAARELCVPLAVPYLD KPPTPLHFYRDWVCPNRPCHRN ALQHPALQKWSLPYFRATVG STKVSVAVTPDGYADAVERGI RF/M*LPVERRRLPLSFVLDVLEG RAQHGPVLYVQKQCSNLPSELP QLLPDLESHVPWASEALGKMP DAVNFWLGEAV*VTFLHKDHY ENLYCVGSGEKHFLFHPSPDRP FIPYELYTPATYQLTEEGTFKVV DEEAMEKAEVSRTC
20146	50514	A	20262	164	1236	AQSRRSRDRGQAFSNHAAEHI TCTPGSGSGSRVSSGQAARRRL SGRAGLWAAVTNPPPHPTWLE VSRSAATARAALCRRSACLLP RTPHLSAMISASRAAAARL/VG AAASRGLRAARHQIRSNQGTV VGIDLGTNSCVAVMKKNVPF KIVRASNGDAW/VEAHGKLYSP SQIGAFV/LMKMKETAD**LFLS SEPPQPGQRAGFLQPSCCGAYY LYPWLRERQSSILWSGGAAAPQ RKSGPLGRSDQPPSPHVVGGF QKRCRHRSSRLPSERLFAASYS SFIRHDKCQPSCSSPSRGAAASR GLRAARHQIRSNQGTVVGIDLG TTNSCVAVMKKNVPFKIVRAS NGDAWVRLMGNCILRVRLHL CDEDERDCRLIVALPEGMEEPE FDYQNDMGNSQDLERRRGCAA EPWEEGVGQSLALPLVSLCLKC RWYRSPCTQGQHPATFSGPAEG VISERSMLEHWHEEINQCKAYN EDVFSTMRTPARISSEAMAPA DIIDHSSQRPDFTSGKMLADEF GTASNIKSRVNAFQSWEPLHLY NKDSNL
20147	50515	A	20263	216	728	

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20148	50516	A	20264	1	2519	MAPSSRSGAGNTSTPGGCARAR APPGNAGVHSGTQTGAVRDTA FISPSSPGLFLSSEPPQPGQRAGF LQPSCCGAYYLYPWLRRERQSSI LWSGGAAAPQRKSGPLGRSDQ PPSPHVVGGFQKRCRHRIAQL FAVGALVCCLVLLHLSAMISAS RAAAARLVGAAASRGPTAAR HQDSWNGLSHEAFRLVSRRDY VASEAIKGAVVGIDDLGTTNSCV AVMEGNQAKVLENAEGAKTT PSVVAFTADGERLGGMPAKRQ AVTNPNTFYATKRLIGRRYDD PEVQKDIKNVPFKIVRASNGDA WVEAHGKLYSPSQIGAFVLMK MKETAENYLGHTAKNAVITVP AYFNDSQRQATKDAGQISGLN VLRVINEPTAAALAYGLDKSED KVIAYVDLGGGTFDISILEIQKG VFEVKSTNGDTFLGGEDFDQAL LRHIVKEFKRETGVDLTKDNM ALQRVREAAEKAKCELSSSVQT DINLPYLTMDSSGPKHLNMKLT RAQFEGIVTDLIRRTIAPCQKA MQDAEVSKSDIGEVLVGGMT RMPKVQQTVDLFGRAPSKAV NPDEAVAIGAAIQGGVLAGDV TDVLLLDVTPLSLGIETHGAVF SKLINRKTNIPTKKSQVFSTAAD GQTQVEIKVCQGEREMAGDNK LLGQFTLIGIPPAPRGVPQIEVTF DIDANGIVHVSADKGTGREQ
20149	50517	A	20265	1	168	LERERRKRSRKELNIFYAWQH RESKMEHLR/QLRKKFEEDKQR IELLRAQRKFRPY



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20150	50518	A	20266	3	1085	ARAGAEPQLPATPALPGGKMV ARSLAGLSSG*PGHPSPPIFFAI PIKFSEKQQASHYLYVRAHQIQ QGTKWREALGWP/SRMLTLGF P/PPCS/EESLSCLQSTCGLVQSV ELKFPDLPHPCTSCLAFSVPC*S SRTVSAGHLQGLPRLPSCFPTE GAPSPGLGAGSPGALLFRDLVP DVGRSPQPLTSLSLQGFQVAYV VFQKPSGVSAALAVGPKCQA* GSPVSLAPFSSEWISDYADSVDP PGWRLREVPGAHRTMGSPSLQ EEAKAKEEEGVPEEGWVKVT RRGRPVLPRTAAASLRVLERE RRKRSRK\ELLNFYAWQHSRE/ SKMEHS*GKCARSFEEDKQIR ACCGPKRKIPDRN
20151	50519	A	20267	2	334	SLQVQPFASLISKAPLSTPRLIN KEKAGQSDPFLGMIMGLGGGM DFDSKKA/YAELLGWKKELEDL VRREHASIDAQSGAGVPNPSTS ASPKKSPPPAKDEARTTEREKP Q
20152	50520	A	20268	124	407	QSDPFLGMIMGLGGGMDFDSK KAY/RVRPRRGLGQPGMDRVR WERGHEGR*EEQAGASPPGNS DLLLHRRDVAWLGECDQGC LAELLGWKVRS
20153	50521	A	20269	193	458	
20154	50522	A	20270	55	1165	RDRAVGDSLKGFSTAPMAEPD PSHPLETQAGKVQEAQSDSDS EGGAAGGEADMDFLRNLFST LSLG\SQKERLLDELTLEGVA\R YMQSERCSQSSSCLVGAGISTS AGIPRLFASPSTGLLNNLEK*P SFPNPEAIF*DSAIFKKH\PEPFFA LAK\EL\YPGAVSRPTICSHSCGL LERDKGGLLLR/CVKRREH*VT WERIAGLEQEDLVEAHGTFYT SHCVSASCRHEYPLSWMKEKIF SEVTPKCEDC\QSLVKPDIVFFG ESLGARFFSCYCSDFLKV\DLL L\VMGTSL\RDVAWLGECDQGC LALAELLGWKKELEDLVRREH ASIDAQSGAGVPNPSTSASPKK SPPPAKDEARTTEREKPQ

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20155	50523	A	20271	3	357	FGFNGCSKRIIKLQELSDLEERE NEDSMVPLPKQSLKFFCALEVV LPSCDCRSPGIGLVEEPMKVE EGPLSFLMKRKTAQKLAIQKAL SDAFQKLLIVVLG/QDCLDHP*S TSVSVSK
20156	50524	A	20272	696	1123	IPLKMMNFLQSLKSPQLSHQLR L*LPQEVEPSLTQQNFPAQTP/V PPMEAEPSPNQQEATVQASEPP KNIELSSQQMVPEIFPPTMENS NQLPEPPTVEVVAQLPPRYEVTIP TQGQDQAQLSTLASVTLQPLDL GFIITPESTTEIELSPTMQETPTQ PPKEFVPQPPV/LSRESSEETGPL PVQQETSAESPEPTKDENPSPIQ *EAAFSEISSQGSSWHQT
20157	50525	A	20273	1	727	GIPAADRIEASLELIKLDISRTFP NLCIFQQGGPYHDMILHSILGAY TCYRPDVGYYVQGMFSIAAVLIL NLDTADAFIAFSNLLNKPCQMA FFRVDHGLMLTYFAAFEVFFEE NLPKLFAHFKKNNLTPDIYLID WIFTLYSKSLPLDLACRIWDVF CRDGEEFLFRTALGILKLFEDIL TKMDFIHMAQFLTRLPELPAE ELFASIA TIQMQRNKKWAQVL TALQKDSREMEKGSPSLRH
20158	50526	A	20274	3	435	CGGIPKMEESA EYEAA RHKRE KRMENINLAGSKRGKEDGKDS EFAAIENLPGFELLS DREKVLCS SLNLSPARYVTVKTIHKDHLQK RQGIP/CQKPPS*LPGQSPKEKD FEFPHRKRLDLQGRVLKLRFE SQGDAQTVCPK
20159	50527	A	20275	46	513	

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20160	50528	A	20276	3	1084	NQEWKRSPITVAKATQGAYL NILKDTLRAQKEQKEGKEEVH KGAKLHPNGYRMAQGETLVA RGGPCRSVEPSAASPQELRGW WEAQALKRWGLMGGVWVME VDPSWLGAISAIVSSASRLKS VWHIPCPHFLLLRPQLKEAQR KKQLEERCERVEESIGNAVLTW NNEILPNWETMWCSRKVRDLW WQGIPPSVRGKVWSLAIGNELN ITHELFDICLARAKERWRLSTG GSEVENEGLCVAVCAQQGHVG VMGFGSDEPSAVSPCEKGKSLA AWVLIFVDFRVGLQKSFQKRK ERESTKLQQLWSWCLMLTYFA AFEVFFREENLPKLFAHFKKNNL TPDIYLID/W*FRLLVGC
20161	50529	A	20277	60	556	EDSEMAPPAGPASGGFGEVYE LFDVKNAFYIGSYQQCINEAQR VKLSSPERDVERDVFLYRAYL RRDSIVAELDREMSRSVDVTNT TFLMAASIYLHDQNPDAALRA LHQGDSLECTAMTVQILLKLDRL DLARKELKRMQDLDEDATLT QLATAWVSLATGG
20162	50530	A	20278	1	628	FFYKSVLAKQEVRCVLDE/ISPL GPPELKPVRMFADL/LPHESRR DSSVPELAEKMSRSVDVPTPPS LLMAASIYLHDQNPDAALRAL HQQGDSLECTAMTMQDAYYIFQ EMADKCSPTLLLLNGQAACHM AQGRWEAAEGLLQEALDKDSG YPETLVNLIVLSQHLGKPPEVT NRYLSQLKDAHRSHPFKEYQA KENDFDRLVLQYAPSA
20163	50531	A	20279	1	884	RKFGVVLDEIKPSSAPELQAVR MFADYLAHESRRDSIVAELDRE MSRSVDVTNTTFLMAASIYLH DQNPDAALRALHQGDSLAECTA MTVQILLKLDRLDLARKELKR MQDLDEDATLTQLATAWVSL ATGGEKLQDAYYIFQEMADKC SPTLLLLNGQAACHMAQGRWE AAEGLLQEALDKPPHGCSCERK LVSPFMVETEAQKSPVCKKVPC HGPPWAGRALGASSLDSGYPE TLVNLIVLSQHLGKPPEVTNRY LSQLKDAHRSHPFKEYQAKEN DFDRLVLQYAPSA
20164	50532	B	20280	512	903	
20165	50533	A	20281	18	413	

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20166	50534	A	20282	1	1195	MKHPNINSALQAPHFPVGRPH LVAGVAPPALSNNHPQARATAA AGKPHPRCAEAAGIGLACTAPG SHWLKMGEPLDINIQEPRWD QSTFLGRAPHFFTVTDPRNLLL SGAQLEASRNIVQNYRAGVVTP GITEDQLWRAKYVYDSAFHPD TGEKVVLIGRMSAQVPMNMTI TGCMLTFYRQGSKDEGHCRRG RSECLCSLRKTPTVFWQWVN QSFNAIVNYSNRRW*HFPSLV RLGTAYVSATGTGAVATALGL KSLTKHLPPLVGRFVPFAAVAA ANCINIPLMRQRELQVGIPVAD EAGQRLGYSVTAAKQGIFQVVI SRICMAIPAMAIPPLIMDTLEKK DFLKRRPWLGAQLQVGLVGFC SIHISNLEPELRAQIHEQNPSVE VYYNKG
20167	50535	B	20283	24	51	
20168	50536	C	20284	1	1182	
20169	50537	B	20285	1	372	
20170	50538	A	20286	1	4610	ELAQNHSRPAPASAPGGGGGG DPNMATARTFGPEREAEP AKEARVVGSELVDITYTVYIIQVTDG SHEWTVKHRYSDFDLHEKLV AERKIDKNLLPPKKIIGKNSRSL VEKREKDLEVYLQKLLAAFP GVTPLVLAHFLHFHFYET*VIHA A\LAEELEFEKGEQLLGAGEVFAI GPLQLYAVTEQLQQGKPTCAS GDAKTDLGHIL\DFTCRLKYLK VSGTEGPFGTSNIEQLLPFDLS IFKSLHQVEISHCD
20171	50539	A	20287	1	4670	MAAQRAAGATGGGGRGASAP GGGGGGDPNMATARTFGPERE AEPAKEARVVGSELVDITYTVYI IQVTDGSHEWTVKHRYSDFDH LHEKLVAERKIDKNLLPPKKIIG KNSRSLVEKREKDLEVYLQKLL AAFPGVTPRLVLAHFLHFHFYEI NGITAALAELEFEKGEQLLGAG EVFAIGPLQLYAVTEQLQQGKP TCASGDAKTDLGHILDFTCRLK YLKVSGTEGPFGTSNIEQLLPF DLSIFKSLHQVEISH
20172	50540	A	20288	2	227	ERFRPPIARVIDVSNGKVHVAE/ SCLEETGGLGVDIVLDAGLDPP DSHCLFLKGATLAFLNDEVWN LSNVQQGRYL
20173	50541	A	20289	3	487	

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20174	50542	A	20290	2	222	
20175	50543	A	20291	1	296	HLSPGKSV\IMDGASA\FGTIAI QLAHHRGAKVISTACSLQDKQC LERFRPPIARVIDVSNQKVHVA ESCLEETGGGLGVDIVLDAGGYI FQHSSYIFT
20176	50544	A	20292	353	512	
20177	50545	A	20293	2	396	VRLYSKDDEPAVKLQLLPHKH DIITLLGVGGHWVTTEENLQLD PPDSHCLFLKGATLAFLNDEVW NLSNVQQGKYLS*QSFQLRLK DVMEKLSTGVFRPQSDHIPVF EAR\SLIVEKNQGR*NKLHF
20178	50546	B	20294	1	1182	
20179	50547	A	20295	1	1189	PTRPDQWEQGAGSLTKDWKV AVVKVQAVGAAQRQVTMKGL YFQQSSTDEEITVFQEKEDLPV TEDNFVKLQVKACALSQINTKL LAEMKMKKDLFPVGREIA\GIV LDVGSKVSFFQPDDEVVGILP LDS*KTPGL\CESLLRVHEPLL FINPEKVTWTEAAGSISGMGV RAYYSFLHLS/YLHLLSWGKSV LIMGGS/ASAFGTIAIQLAHHRG AKVISTACSLQDKQCERFRPPI ARVIDVSNQKVHVAESCLEETG GLGVDIVLDAGVRLYSKDDEP AVKLQLLPHKHDIITLLGVGGH WVTTEENLQLDPPDSHCLFLK GATLAFLNDEVWNLSNVQQGK YLCILKDVMEKLSTGVFRPQLD EPIPLYEAKVSMEA\QKNQGR
20180	50548	A	20296	3	115	FFKFSFFNGC*SIKRSQGGALD RDIICFVDICTKDC

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20181	50549	A	20297	1	1401	MKEEELTRQIVLVQEAGKGVV RTKDGACAEVWQALEELEKGL CAGIVRVEGMAAAPPSYCFVAF PPRAKDGLVVFGKNSARPRDE VQEVVYFSAADHEPESKVECT YISIDQVPRTYAIMISRPAWLW GAEMGANEHGIVCIANEAINTR EPAAEIEALLGMDLVRL\GLER GETAKEALDVIVSLLEEHGQGG NYFEDANSCHSFQSAYLIVDRD EAWVLETIGKYWAAEKVTEGV RCICSQSLSTTKMDAEHPELRS YAQSQGWWTGEGEFNFSEVFS PVEDHLDCGAGKDSLEKQEEI TVQTMMENTLRDKASGVCIDSE FFLTASGVSVLPQNRSSPCIHY FTGTPDPSRSIFKPFIFVDDVKL VPKTQSPCFGDDDPAPKEPRFQ EKPDRRHELYKAHEWARAIIES DQEQGRKLRSTMLELEKQGL* AMEEILTSSEPLDPAEVGDLFY
20182	50550	A	20298	1	356	QTPKIVADKDYSVTANS\KIVV VTAGVRQEGESRLNLVQRNV NVFKFIIPQIVKYSPDCIIIVVSNP VDILTYVTWK/ARFRYLMAEKL GIHPSSCHGWILGAHGDSSVAV WSGVNLAG
20183	50551	A	20299	1	322	
20184	50552	A	20300	25	1086	
20185	50553	A	20301	1	864	
20186	50554	A	20302	13	190	

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20187	50555	A	20303	1	1350	MEKPKRLRLWGPAPSSLLAE PAPEETHAADFVFSARLLQRSP EPSLSWGGRALAEEQKAEGSSC GSAERLVAFAAKTRPYLSLCK MATLKEKLIAPVAEEETVPNN KITVVGVGQVGMACAISILGKS RAMEHTTAGAPYTPRQQTCQC NMMSLADELALVDVLEDKLGK EMMDLQHGSFLQTPKIVADK DYSVTANSKIVVVTAGVRQQE GESRENLVQRNVNVFKFIIPQIV KYSPTDCIIVVSNPRDILTYGT WKL SGLPKHRVIGSGCNLDSAR FRYLMAEKLGIHPSSCHGWILG EHGDSSVAVWSGVNVAGVSLQ ELNPEMGTDNDSSENWKEVHK MVVESA\YEV\QA*KGYTH\WA IGLSVA/EILNESMLKNLSR\HP VSTMVKGMYGIENEVFLSLPCI \NAGGLTSVINPKVKDDEVAQ LKKSADTLWD\QKDLKDL
20188	50556	B	20304	1337	1706	
20189	50557	A	20305	178	344	
20190	50558	A	20306	2	297	TKMTVNNLHPRVTEEDIV/GQP MKCNLHMNGNVITSDQPILLRL SDSPSMKKESELPRRVNSASSS NPPAEVDPDTILKALFKSSGAS VTTQPTFEFKIKL
20191	50559	B	20307	8	478	
20192	50560	C	20308	146	391	
20193	50561	A	20309	3	735	HRQKDARFRIKGVQDAREML NSRKQQTTPQKPRQVADARE KISLKRSSPAAFINPPIGTVTPAL KLTKTIQVPQQKAMAPLHPHPA GMRINVNNHQAKQNL\YDLD EDDDGIASVPTKQMKFAASGG FL\HHM\AGLSSSKLSMSKALPL TKVVQNDAYTAPALPSSIRTKA LTNMSRTL VNKEEPPKELPAAE PVLSPLEGTKMTVNNLHPRVTE EDIVELFCVCGALKRARLVHPG VAEVG

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20194	50562	A	20310	1	1763	MEIASFVGPNVNTVGNLRPAQS AAGDGDEVQSVHSQRQDCQAT GSLNGENNEKNAFTTYQQET KNTTTPQSVYFLGVNKMSSQH REGSRGTSPPLPVLAFCFELAVA RVGPRTPEVVRRSLAAEGAGSR GLDCFRLARRIKMADISLDELIR KRGAAAKGRLNARPGVGGVR SRVGIQQGLLSQSTRTATFQQR FDARQKIGLSDARLKLGVKDA REKLLQKDARFRIKGVQDAR RDV*TFRKQQTTPVQKPRQVVA DVARERIQLGRGRSPAFLNPPI GTGTPALKLTTTIQRMHVDVPG WILTTECFQVPQQKAMAPLHP HPAGMRINVNNHQAKQNLV DLDEDDDDGIASVPTKQMKFAA SGGFLHHMAGLSSSKLSMSKA LPLTKVVQNDAYTAPALPSSIR TKALTNMSRTLVNKEEPPKELP AAEPVLSPLEGNKMTVNNLHP RVTEEDIVAEVFCVCGGL/RRRA RLVPSGG*PKVVFCEKRDDAIT AYKKYNNRCLDGQPMKCNLAH MNGNVITSDQPILLRLSDSPASM KKESELPRRVNSASSSNPPAEV DPDTILKALFKSSGASVTTQPT
20195	50563	A	20311	1	915	
20196	50564	A	20312	3	3238	LDTDDDLNSDDYEYEDEAKLVI FPDHYEIALPNIEELPALVSECA RLLARCAWLCVSLKLSTLLTDD TGLLTVRNKEEVLARSKVIA CDAVLSSKSPYRKQDPDTWEN ELPVSKYANNLTQLDNGVRIPP SGWKCARDLRENWLNLTDG SVLCGKWFFDSSGGNGHALEH YRDMGYPLAVKLGTITPDGAD VVSFQEEEPVLDPHLAKHLAH FAGIDMLHMHGTENGLQVNDI KLRVSEWEVIQES



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20197	50565	A	20313	2	2716	AEFRGIPRRRRRQTTPRSGSGSAR SAPVRAEAMQRRGALFGMPGG SGGRKMAAGDIGELLVPHMPTI RVPRSGDRVYKNECAFSYDSPN SEGGLYVCMNTFLAFGREHVE RHFRTKGQSVYMHLLKRHAREK VRGASGGALPKRRNSKIFLDLD TDDDLNSDDYEDYED* AFLVIFP DHYEIALPNIEELPALVTIACDA VLSSKSPYRKQDPHTWENELPV SKYANNLTQLDNGVRIPPSGW KSARCDLRENLWLN
20198	50566	A	20314	2	322	
20199	50567	A	20315	1285	3331	GAGAPRDWRLRRRGGAALCLK VLFDVRSFPREAAALTPHRLQ FPRSSSPGDQMMAAARLLPVP AGPQPLSFQAKLTFEDVAVLLS QDEWDRLCPAQRGLYRNVM ETYGNVVSLLGLPGCKPDIIHLE LRGISLGPVPEWG*E EPPGVE*L L/ENVETKGESQNTDLS PKPLIS EQTIVILGKTPLGRIDQENNETK* SFCLSPNSVDHREVQVLSQ SMP LTPHQAVPSGERPYMCVECGK CFGRSSHLLQHQRHTGEKPYV CSVCGKAQSSSVLSKHHRIHT GEKPYERNRACISLYSEPHLAH LSLIHTGEKPH*CLECPKAF TQL SHLIQHQRHTGERPYVCPLCG KAFNHSTVLRSHQRVHTGEK P HRCNECGKTFSVKRTLLQHQR I HTREKPYTCSECGKAFNDRSV LIQHNVHTREKPYECSECGKT FSHRSTLMNHERIHTTEKPYAC YECGKAFVQHS SHLIQHQRVHT GEKPYVCGECGHA FSARRSLIQ HERIHTGEKPFQCTECGKA FSL KATLIVHLRTHTEKPYECNSC GKAFA SRTQLLIQHQRHTGEK P YECGECGGA FNQHGHLIQH QK SAQKSCDPWLTQE/CPFSQKLH VEPTSSLQPKRSLC*LYRKLFFG DSVSQNNSRKKHLACCSCGKTS ETTCFIFLNHLEV/HVGE*SYNC
20200	50568	A	20316	1	319	
20201	50569	A	20317	1	2433	
20202	50570	A	20318	2	293	GELAGTQCTRGACPHSP*PLHR Q/HTTVTHITAFDPDSTGQQVW QDLLQDGLDSTGDDGSDWE MVGREVPVVLGPGVGGLVISRP CFHVRDPYPWG

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20203	50571	A	20319	1	537	GGGTITRGWRGQFCRWQLNPG MYQHRTVIADQMRTLRSREV** HAQGHKFTVCLRREGQTVYQQ VLSLERPSVLRSWNWGLCGYF AFYHALYPRAWTVYQLPGQNV TLTCRQITPILPHDYQVRPPHLY LPLPSLPQDLPLETAWPARRG SHACNPNTLGGKAGGSRDQEIE TILANT
20204	50572	C	20320	3	170	
20205	50573	A	20321	278	1018	RVGVSRRPEVRNWA.TRDCRAQ ERMTHCLLHGMGRAGAASLTP KPMSLISAYCGGLWLA AVAVM VQMAALCEGTGQSRISFLLSSA GAKKPMRDCCGMVSSGSLSSL KAAERTPGALFFSSSTPGRYYN YDSSSRPQSRVMSDQVCWTV GVPEGLWP*EKGDTEVREEEEQ PERKM GFPWRWEVFPTQH VVR ALQTIFELNVQAFAGGAMGAV NGMQPHGVPDKSSVQSDEVW VGVVYGLAATMIQE
20206	50574	A	20322	3	627	

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20207	50575	A	20323	270	2945	NTSSFKLSPTTGPPGRYLTTTGA RIWNRLARYLVSEGSGLGAIEV MGTQDPGNMGTGVPASEQISC AKEDPQVYCPEETGGTKDVQV TDCKSPEDSRPPKETDCCNPED SGQLMVS YEKGAMGYQVPPFG WRICLAHEFTEKRKPFQANNVS LSYMIKHIGMGLRYLQWRDRK THVEKKT PFD MNKSVPIQSYF VPLGGLRGGTSTRGWRGQFCR WQLNPGMYQHRTVIADQFTVC LRREGQTVYQQVLSLIERPSVL RSWNWGLCGYFAFYHALYPRA WTVYQLPGQNVTLTCRQITPIL PHDYQDSSLPGVGVFVWDVENE GDEALDVSIMFSMRN/GTGWW RRCPRGFVGMSPSVWSVGVQT VRGLLLHSSNPSKPLHDGLWLA RSSRAATTVNPH/CTAFDPGVRT GAAVWQDLLQDGLDSPTGQ RTPTQKGVGIAGAVCVSSKLRP RGQCRLEFSLAWDMPRIMFGA KGQVHYRRYTRVFGAGGDAP PALSHYALCRYAEWEERISAW QSPVLDLDRSLPAWYKSALFNE LYFLADGGTVWLEVLEDSLPEE VRAETSVTSAPTLRDYRRFG*LE GQEYRMYNTYDVH FYASFALI MLWPKLELSLQYDMALATLRE DLTRRRYLMSGVMGTCEKEGT FIPHDIGGPRWMEPWASAFNAY VLIHDTADWKDLNLKFVACRFI
20208	50576	C	20324	123	359	
20209	50577	A	20325	1	259	KPVGEKDTWSGMRTTGQLRPA HGVRLKANKDSLYKPILRQKK HFNSLHIPKALQKALPFKNKPK TQAKAGKVPKDRRR*TVSNITV
20210	50578	A	20326	297	585	
20211	50579	A	20327	182	374	PDFRIAAT*VVLDLDKSIKIVKK LKLTGFPYKIFKNTSFIKACISY SHIYKSPYCLRKGMKYL

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20212	50580	A	20328	1	1267	MAANRKDFIHRRCGPESQSEA VPQGLCRAERSSALAMLSGSVP RRTQLRPCKGTQRRCRRGGEA DSGGEAVGGGAAERSSAAARR RGGRRRGGEAVGGGAAERSS AAARRRRGGRRRRGGGEAGGG GAAEARAAARRRAAAARRA AAARRAAARRRAAAARRJAES GGEAHSRGEAHSRGEAHSRGA GAERRRPRLHSPALKTHPGQSS EGHVEYKLNHVEFEDQDDEAR VQYEGFRPGMYVRVEIENVPCE FVQNFDPYPIILGGLGNSEGNV GHVQMRLLKKHLWYKKILKSQ DPIIFSVGWRRFQTILLYIEDH NGRQRLKYPQHHCGAFFW DIVFMRTWYLVSIAPFYNPVT LLKPVGEKDTWSGMWTTGQL RLAHGVRLKTTKDSLYKNIHMI VETDTYSDHEEINTS
20213	50581	A	20329	66	1414	KEELYGDFEDLETGDVHKGKS GPDTQNEDEKKEEIDPDEES AKKKHLDKKRKLKEMFDVEY DEGESTYFDDLKGEMQKQAQV N/RHTRFPAPRHVQLNHAEF EDQDDEARVQYEGFRPGMYVC VEIENVPCEV*NLDPYPIILG GLGNSEGNVGYVQVGPFAAYL VPEALWISPPSIILPSHPPQMRLK KHRWYKKILKSRDPIIFSVGWR RFQTIPLCYIEDHNGRQRLKY TPQHVHRGAFFRSSSSSSSSSS SSSSSSSSSSSSSSSSSSSSSR IAATGVVLDLDSIKVVKKLKL TGFPYKIFKNTSFIKGMFNSALE VAKFEDAVIRTVSGIRGQIKRA L*APEGAFQDSLEDKLRMSDIV FMRTWYPVSIAPFYNPVTSLK PVGEKDTWSGMWTTGQLRLA HGVRLKTNKDSLYKVLVVCVL VEMKPVLYRQ

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20214	50582	A	20330	4210	5099	AKDQKKHRKKNSGPKAAKKK KRLQLDLQLGD\EEDAWKRNP KAF\AFQSAVWMARSFHRTQD LKTKKHHIPVVD\RTPLEPPPI\V VVVMGPPKVGKSTLI*CL\RN TRQKLTET\RGPVTVSGKKLRL TIIDCGCDINMMIDLGEVADLV LMLIDASFGFEMETFEFLNICQV HGFPKIMGVLTHLDSFKHNKQL KKTKKRLK\HRFWTEVYPGAKL FYLSGMVHGEYQNQEIHNLGH FITVMKFRPLTW
20215	50583	A	20331	56	467	
20216	50584	A	20332	282	452	
20217	50585	A	20333	1	1356	
20218	50586	A	20334	80	1096	GLGVRVLRCPGVYRGPCTRAA YLGWLWTTLSPYCCLRSADMN PIVLVHGGGAGPISKDRKERVH HGMVRATTVGYGILREGGSAV DAVQGA\VALEDDPEFNAGCG SVLNTNGEVEMDASIMDGKDL SAGAVSAVQCIANPIKLARLVM ENFPHCFLTDQGAHFAGAMG VPEIPGKKLVTERNKKRLEKEK HEKGAHKTDQCQNLGTVGAV ALDCKGNVAYATSTGGIVNKM VGRVGDSPSLGAGGYADHDF* AVSTTGHGE\SLKVNLARLTLF HIEQGKTLEEAADPIG/CG*MKS RVKGLGLIVVSKTGDWVAK WTSTSMPWAAAKDGKLPLRN
20219	50587	A	20335	1	1416	
20220	50588	A	20336	3	277	

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20221	50589	A	20337	235	2811	VKMEAPLRPAADILRRNPQQD YELVQRVSGTYGDIVKARNV HTGELAAVKIIKLEPGDDFSLIQ QEIMVKECKHCNIVAYFGSYL SREKLWICMEYCGGSLQDIYH VTGPLSELQIAYVCRETLQGLA YLHTKGKMHRDIKGANILLTD HGDVKLADFGVAAKITATIAGR KSFIGHTPYWMAPEVAAVEKNG GYNQLCDIWAVGITAIELGELQ PPMFDLHPMRALFLMSKSNFQP PKLKDKTKWSSTFHNFKIALT KNPKKRPTCLKDF*HHTFVAQ PGLSRALAVELLDKVNPNPDNH AHYTEADDDDFEPHAIIRHTIRS TNRNARAERTASEINFDKLQFE PPLRKETEAREDEMGLSSDPNFM LQWNPV*WWQITGKSTSKRA IPPPLPPKPRISSYPEDNFPDEEK ASTIKHCPDSESRAQILRRQSS PSCGPVAETSSIGNGDGSKLMS ENTEGSAQAPQLPRKNDKRDFP KPAINGLPPTPKVLMGACFSKV FDGCPLKINCATSWHPDTKDQ YIIFGTEDGIYTLNLNELHEATM EQLFPRKCTWLYVINNTLMSLS EGKTFQLYSHNLIALFEHAKKP GLGCPHFQTHRFDPDRILPRKFAL TTKIPDTKGCHKCCIVRNPTYG HKYLCGALQSGIVLLQWYEPM QKFMLIKHFDPLPSPLNVFEM LVIPEQEYPMVCVAISKGTESN
20222	50590	C	20338	365	389	
20223	50591	A	20339	1	350	FDVTELCGQWLSRGGEIEGFR SAHCSCDSRDNTLQVDINGFTT GRRGDLATIHGMNRPFLLLMA TPLERAQHLQSS/RAPCCVPQAL EPLPIVYYVGRKPKVEQLSNMI VRSCCKCS
20224	50592	A	20340	1	708	
20225	50593	B	20341	229	1249	
20226	50594	B	20342	49	375	
20227	50595	A	20343	42	305	GARAHAPVLVQEEDLHGPHPL RPERL/PSVPSGRSSPPASR/PVG PGG/DQLRPSDRQQQVSGME WC/PWSGRSPGLSPTVGRGGC HPTST
20228	50596	B	20344	8	1990	
20229	50597	A	20345	1	1512	

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20230	50598	A	20346	1	1663	SGRDRRGRAWRKRNREPPTRG RSPDPQGPSARPLPSLGARISAA DRLSGLAARLIGNSRPVAGANA GVGPDLSHAGLVPTCARRLRR KNGLGRRRRRPPSPRRPSLESS SRLTTLGTSQPLKFNFPPCDLRI FQTFNC\WGI\PV\*AKHR\ADR MRRFGRPF*QESFDLALLEEV WSEHDFQYLRQKLSPTYPAAH HFRSGIIGSGLCVFSKHPIQELT QHIYTLNGYPYMIHHGDWFSG KAVGLLVHLNGMELNAYVTH LHAEYNRQKDIY\THLVG\QA WELAQFIHHTSKKADVLLCG DLNMHPEDLGCCLLKEWTGLH DAYLETRDFKGSEEGNTMVPK NCYVSQQLKPPFGVRIDYVL YKAVSGFYISCKSFETTTGFDPH SGTPLSDHEALMATLFVRHSP QQNPSSTHGP\AERSPL\MCVCL KEALDGSGLGMA\QARWWA\ TFA\SYVIGLGL\LLLALLCVLA AGGGAGEAAILLWTPSVGLVL WAGAFYLFHVQEVNGLYRAQ AELQHVLGRAREAQDLGPEPQ LYALL\LGQQEGDRTKEQ
20231	50599	A	20347	175	544	RLRCQKGIPLSLRGRAWQYLSG GKVKLQQNPGKFDQ\LDMSPG DPTWLDVIERDLHRQFP\FHEM FVS/RGGH/GQQDLFRVLDAYT LYRPEGSYCKTQAPIAAVLLMH MP\AEQAFWCLVQICEKYL
20232	50600	A	20348	1	434	CAAGIRHELRRRARLGWRTAT ERMGRACPRPGKACREPGRA* ARALTPQPPTNSALSGLTRRPT ASPS\PHRQVRLDRGLAGRQGR AGGSTPGGAEEGVQVAGHAQ AMVVAAARDACPPQHVPKDS APKDSAPQDLAPQVSAH
20233	50601	A	20349	3	510	

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20234	50602	A	20350	1	1669	MAKSNGENGPRAAAGESLSG TRESLAQGPDAATTDELSSLGS DSEANGFAERRIDKFGFIVGSQ GAEGASILGQTVPSPHGRVGE PPIRSYTASSTGTGNRLEEVPLE VLRQRESKWLDMLNNWDKW MAKKHKKIRLRCQKGIPPSLRG RAWQYLSGGKVKLQQNPCKF DELDMSPGDPKWLDVIERDLH RQFPFHEMFVSRGGHGGQDLF RVLKAYTLYRPEEGYCQAQAPI AAVLLMHMPAEQAFWCLVQI
20235	50603	A	20351	1	243	
20236	50604	A	20352	70	382	
20237	50605	A	20353	2	322	
20238	50606	A	20354	86	215	
20239	50607	B	20355	1	735	
20240	50608	A	20356	92	1104	MSSPQAPEDGQCGDRGA\PPG DLRSVLVTTVLNLEPLDEDLFR GRHYWVPAKRLFGGQIVGQA MVA AATSV\SEDVHV\HSILHC YF/VFRAGDP/KSLPVLYQVERT RTGVEA\FRLRSVKGP*NMGKPI F\ICQ\ASFQQA\QPSP\MQHQFS MP/TLLPTTEELV*IVRTLFDQY LRDPNLQKRYPLALNR\AAQE VPIEIKPVNPSPLRPAAEEWEPK QMFW\VRARGY\IGKSTPWKM\ HC\CV\AAYIS\DYAFLGTALAA LTQWPSTRCHFHPPLD/HNPM W\FHAPFRAD\HWMLYECESPW AGG\SRGLVHGRLWRQDGVLA VTCAQEGVIRVKPQVSESKL
20241	50609	A	20357	3	1106	LRRQLQPLLPLPKSPPRSGAHL GSLFRSPQPSYPVRPPGSAGTPP PACLPPAQPCQGSPAMNLFRL GDLSHLLAIHLLLLKIWKSRSCA GISGKSQVLFAVVFTARYL\DLF TNYISLYNTCMNVVYIACSFTT VWLIY\TKFKATYDGN\HDTFR SGSSRVV\VPQAILGVSWSNHD FTPL\EILWTF\IYLGVSGLPQ LFHG*GKTGRGRETHSPATYLF CAKAFNPHALSLSNWI\WR\YHF \EGFFD\LIAIVAGPGPRQSSYCD FF\YLYYSPKFLKGERKFEFCRH RPRFLSISSPRAAAGRAGGKAG RKMKSFSHPRGDFFKNPTSLCS PIPPSCPLKGN SARIPGLWGAQ RLGAVCSFLAF



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20242	50610	A	20358	356	1356	TPTTSGRTRKMWPRPGT*PP/A NCSANINLTHQPWFQVLEPQFR QFLFYRHCRYFPMLLNHPEKCR GDVYLLVVVKSIVTQHDRREAI RQTWARAAVRGWGPSAVRTL LLGTASKQEERTHYQQLLAYE DALYGDILQWGFLDTFFNLTLK EIHFLKWLDIYCPHVPFIFKGDD DVFVNPTNLLEFLADRQPQENL FVGVDVLQHARPIRRKDNKYIYIP GALYGKASYPPYAGGGGFLMA GSLARRLHHACDTLELYPIDDV FLGMCLEVLGVQPTAHEGFKTF GISRNRNSRMNKEPCFFRAMLV VHKLLPELLAMWGLVHSNLT CSRKLQVL
20243	50611	A	20359	221	1579	CCVDEGLEPTCFERTEDIGGVW RFKVSEIFLQLEQVLLFQGESQ LMSCFSDFPMPEDFPNHLHNSK LLEYFRIFAKKFDLLKYIQFQVL YFWGNGFLCISSAHI*IENTQSN GKEQSAVFDAMVCSGHHILP HIPLKSFPGETRWDSQLFGVGF QVLYM*FEGKRILVIGMGNSGS DIAVELSKNAAQV*CSLLTMYL EGRKWGCHTGDWDSVFHTRFR SMLRNVLPRTAVKWMIEQQM NRWFNHENYGLEPQNK*SYFA FLMVYSLVSKVV*RCLKVKST VKELTETSAIFEDGTVEENIDVII FATGYSFSFPFLEDLVKVENN MVSLEYKYIFPAHLDKSTLACIG LIQPLGSIFPTAELQARWVTRVF KGLCSLPSERTMMMDIIRNEK RIDLFGESQSQTQNTYVDYLD ELALEIGAKPDFCSLLFKDPKLA VRLYFGP/CNSY
20244	50612	A	20360	3	200	
20245	50613	A	20361	292	570	
20246	50614	A	20362	2	511	RLRSGPLRLPGADSGSGPKAVC SPPFIVAPTGRGYCGDHESFGA MEEPGVTPQPYLGLLLEELRRV SPGAMSVTWPEGSREPPGEGSS RPALGSKPPWSEVPKPVLVCCP APAR\FEAVVRLVGRLSGFCVM EEDLGLWEGREKKLALMLSLGI EEKSKLLEKFSLVQKE

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20247	50615	A	20363	2	3262	FLSDLEENFENNIFSQVCDVVL NHAPDFRRVYLPYVTNQTYQE RTFQSLMNSNSNFREVLEKLES DPVCQRLSLKSFLILPFQRITRL KLLQNILKRTQPGSSEAEAT KAHHALEQLIRDCNNNVQSMR RTEELIYLSQKIEFECKIFPLISQS RWLVKSGELTALEFSASPGLRR KLNTRPVHLHLFNDCLLSRPR ESVTGVAGQGTRGEGDEERGG SEREREGSEKLRWISALAMPRE ELDLLECYTAE
20248	50616	A	20364	2	2339	TGRGYCGDHESSFGAMEEPGA TPQPYLGLLLEELRRVVAALPE GMRPDSNLYGFPWELVICA V VGFFAVLFFLWRSFRSVRSRLY VGREKKLALMLSGLIEEKSKLL EKFSLVQKEYEGYEVESLKD A SFEKEATEAQSLEATCEKLNRS NSELEDEILCLEKELKEEKSKHS EQDELMADISKRIQSLEDESKSL KSQVAEAKMTFQIFQMNEERL KIAIKDALNENSQ LQESQKQLL QEA EVWKEQVSELNKQKVTFE DSKVHAEQVLNDKESHIKTLTE RLLKMKDWAAMLGEDITDDD NLELEMNSESENGAYLDNPPK GALKKLIHAAKLNASLKTLEGE RNQIYIQLSEVDKTKEELTEHIK NLQTQQASLQSENTHFENENQ KLQQKLKVMTELYQENEMKL HRKLTVEENYRLEKEEKLSKV DEKISHATEELETYRKRAKDLE EELERTIHSYQGQIISHEKKAHD NWLAA RNAERNLNDLRKENA HNRQKLTETELKFELLEKDPYA LDVPNTAFGRGSRGPGNPLDH QITNERGESSCDRLTDPHRAPS DTGSLSPPWDQDRRMMFPPPG QSYPD SALPPQRQDRFCSNSGR LSGPAELRSFNMPSLDKMDGS MPSEMESSRNDTKDDLGNLNV PDSSFPAKKEATGPGFVPPPLA PVRGPLFPVDARGPFLRRGPPFP

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20249	50617	A	20365	160	2810	GLRVPLSPSSPRSRRLRSGPLRLP GADSGSGPKAVCSPPFIVAPTG RGYCGDHESSFGAMEEPGATP QPYLGLLLEELRRVVAALPEG MRPDSNLYGFPWELVICAADV GFFAVLFFLWRSFRSRSRLYV GREKKLALMLSGLIEEKSKLLE KFSLVQKEYEGYEVESLKDAS FEKATEAQSLATCEKLNRSN SELEDEILCLEKELKEEKSKHSE QDELMADISKRIQSLEDESKSL KSQVAEAKMTFQIFPMNEERLK IAIKDALNENSQLQESQKQLLQ EAEVWKEQVSELNKQKVT FED SKVHAEQVLNDKESHIKTLTER LLKMKDWAAMLGEDITDDDN LELEMNSESENGAYLDNPPKG ALKKLIHAAKLNASLKTLEGER NQIYIQLSEVDKTKEELTEHIKN LQTEQASLQSENTHFENENQKL QQKLKVMTELYQENEMKLHR KLTVEENYRLEKEEKLSKVDEK ISHATEELETYRKRAKDLEEL ERTIHSYQGQIISHEKKAHDNW LAARNAERNLNDLRKENAHNR QKLTETELKFELAEEDPYALDV PNTAFGREHSPYGPSPLGWSS ETRAFLSPPTLLEGPLTSLPLP GGGGRGSRGPGNPLDHQITNER GESSCDRLTDPHRALSDTGFLS PPWDQDRRMMFPPPGQSY PDS ALPPQRQDRFCSNSGRLSGPAE
20250	50618	A	20366	131	461	

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20251	50619	A	20367	1	1761	MARGYGATVSLVLLGLGLALA VIVLAVVLSRHQAPCGPQAFAH AAVAADSKVCS DIGRAILQQQ GSPVDASIAALVCTSVVNPQSM GLGGGVIFTIYNVTTGKVEVIN ARETVPASHAPSLLDQCAQALP LGTGAQWIGVPGELRGYAEAH RRHGRLPWAQLFQPTIALLRGG HVEAPVLSRFLHNSILRPSLQAS TLRQLFFNGTEPLRPQDPLPWP ALATITLETVATEGVEVFYTGRL GQMLVEDIAKEGSQLTLQDLA KFQPEVVDALEVPLGDYTLYSP PPPAGGAILSFILNVLRGFNFST ESMARPEGRVNVYHHLVETLK FARGQRWRLGDPRSHPKLQNA SRDLLGETLAQLIRQQIDGRGD HQLSHYSLAEAWGHGTGTSHV SVLGEDGSAAVATSTINTPFGA MVY\SPRTGIILNNEILLDCERC PRGSGTTPSTVSGDRVGGAPGR CWPPVPGEPS PSSMEPSILINKA QGSNLVIGCAGGELIISAVAQAI MSKLWLGFDLRAAIAAPILHVN NKGCV EYEPNFSQEVQRGLQD RGQNQTQRPFLLNVVQAVSQE GACVYAVSDLRKSGEAAAGY

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20252	50620	A	20368	341	2239	LCASSCPFICPPIRPSVCPAAAPL LLGCRAMARGYGATVSLVLLG LGLALAVIVLAVVLSRHQAPCG PQAFHAHAVAADSKVCSDIGR AILQQQGGSPVDATIAALVCTSV VNPQSMGLGGGVIFTIYNVTTG AQWIGVPGELRGYAEAHRRHG RLPWAQLFQPTIALLRGGHVVA PVLSRFLHNSILRPSLQASTLRQ LFFNGTEPLRPQDPLWPALAT TLETVATEGVEVFYTGRLGQM LVEDIAKEGSQLTLQDLAKFQP EVVDALEVPLGDYTLYSPPPPA GGAILSFILNVLRGFNFSTESMA RPEGRVNVYHHLVETLKFAKG QRWRLGDPRSHPKLQNASRDL LGETLAQLIRQQIDGRGDHQLS HYSLAEAWGHGTGTSHVSVLG EDGSAVAATSTIYTPFGAMVYS PRTGIILNNELLDLCERCPRGSG TTPSPV/SGDRVGGAPGRCWPP VPGERSPSSMVPSILINKAQGSK LVIGGAGGELIISAVAQAIMSKL WLGFDLRAAIAAPILHVNSKGC VEYEPNFS/QETVSCFVALAVL KLLASSDPATLAPKWRL*EVQ RGLQDARGQNPDPEGFFLDVV PACV/SQEGACV*RPSRT*RKSG EAAGLLKTLLCPELEVLAPP
20253	50621	A	20369	203	1518	RCYLQFLALLTSTSARAAAI AAAEPPAGSPSVMTRAGDHN QRCCGSLADYLSSAKFHL*LG HSLSTWGDRMWHFAVSFLVE LYGNSLLLTAVYGLVVAGSVL VLGAIIGDWVDKNARLKVAQT SLVVQNVSVILCGIILMMVFLH KHELLTMYHGWVLTSCYILIITI ANIANLASTATAITIQRDWIVV VAGEDRSKLANMNATIRRIDQL TNILAPMAVGQIMTFGSPVIGC GFISGWNLVSMCVEYVLLWKV YQKTPALAVKAGLKEEETELK QLNLHKDTEPKPLEGTHLMGV KDSNIHELEHEQEPTCASQMAE PFRTFRDGVWSYYNQPVF/LGW HGSCFPLYDCPGL*LHHHRVRL HSGTEWFHPQYFDGSISYNWN NGNCSFYLATSKMWFGSDRSD LRIGTAFLFDLVCDLCIHAWKP
20254	50622	A	20370	1	497	
20255	50623	A	20371	1	1575	

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20256	50624	A	20372	251	1351	SLKSTDGVKCGLSINIFHKRREN ILFGMGNPLLDISAVVDKDFLD KYSCLKPNDQILAEDKHKELFDE LVKKFKVEYHAGGSTQNSIKV AQWMIQQPHKAATFFGCIGIDK FGEILKRKAAEAHVDAHYEQ NEQPTGTCAACITGDNRS LIAN LAAANCYKKEKHLDEKNWM LVEKARVCYIAGFFLHVSPESV LKVAHHASENNRIFTNLNSAPFI SQFYKESLMKVMPYVDILFGK* DRSWPTFAREQGFETKDIKEIA QKDTSPCPKMNSKGQRJDLHP KGRDDT\IMATESEVTAFAGLGI KTQKEINDTNEAGDAFVGGFLS QLVSDKPLTECIRAGHYAASIII RRTGCTFPEKPDFH
20257	50625	A	20373	1	201	
20258	50626	A	20374	15	304	
20259	50627	A	20375	51	283	TWVKEAQNDGLCVCIYIFNCQ MTGLDIEKD\QIEMACLITDSD LNILAEVRDAHVIQSYFLKGTG NITIIFSSFFI
20260	50628	A	20376	2	520	QRRLRDWGRGCWSRVMLGGS LGSRLLRGVGGSHGRFGARGV REGGAAMAAGESMAQRMVW VDLEMTGLDIEKDQIEMACLIT DSDLNILAE/GNSVHEDKKFLD KYMPQFMKHLHYRIIDVSTVKE LCRRWYPEEYEFAPKKAASHR ALDDISESIKELQFYRNIFKKK
20261	50629	A	20377	2	206	EFGTRRHVPPCLINFFKDQGSP* LARLVSNWPQVIHPPWPPTVL GLRGVGHCPWPRLGNSSWVW GGH

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20262	50630	A	20378	1	1401	MRSQKTSLYFSLEAKFYCSLRN ERIASCDIINDAGIQTKTLMKRS HVAYALKKPV EQGDSFELESK GFMAITI AVCIEQNL RHSSSLFIC MSSTGQSGTTNNASSLIPSYVFT PPHFNLLDKQGR TAGKSHCGE DRKEHNNACHQEEEEAPDVNPL HGLQASGSPGKTQRIKSQALEG TRL YSHSEETRSG LIRLLRLRQR RLRDWGRGCWSR DMLGGS LG SRLLRGVGGSHGRFGARGVRK RGAAMAA\GESMAQRMVWVD LEITGLDI*KVQIIEMACLITDSD LIILAEGPNLI\KQPD ELLDSMS\ DWCK\EHHGKSGLT KAVKEST NYHCQQA EYEF PALWYDQPD SLPGLCPTCQEIKFHEADKKFP* QNTCPQFMKHLHYRI\DVSHC* KELCQTAGYPEEYEFAPK KAA FSIGPLDD\ISENL\KKVPFFPEN NHLPRKKIRMKRKEGKL*KMG ENEKTVS
20263	50631	C	20379	180	248	
20264	50632	A	20380	455	1133	GIEGWRGEADTLPAEQDGGRR RVSKGDI FSGGAETAQGWGVM GPFQAAPSKRAGREHRGGQRR VQHVGVYPRPGSDKGHGKGT QDSRVPQLPPHPPPIHLVSRHRG KLRHGFLRPMPEPRGLES GKTG NCFGELQH/RTSP*GRSGPREGG PRNIAQQGGCRGSACGR RSH\ E ALRPRVWC GEGPQWTW\CAVC P\NRSAPGAGLAD\RQHPGESRA WGETRLGEAGGAE
20265	50633	A	20381	214	412	
20266	50634	A	20382	3	257	PATVIITVNTTWSAALISRESAL RSFPVKAAALSPSREGGSVTAT PNVRSM TSAVPIMRVSVQ\SKR *PEEQN*QETYPQT TSCR
20267	50635	A	20383	1	1569	
20268	50636	B	20384	15	1744	

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20269	50637	A	20385	2	7205	QASGSCWSSPFFSASTPSAAAT GVPGPTDMAAVLQQVLERTEL NKLPKSVQNKLEKFLADQQSEI DGLKGRHEKFKVESEQQYFEIE KRLSHSQERLVNETRECQSLRL ELEKLNNQLKALTEKNKELEIA QDRNIAIQSQFTRTKEELEAEKR DLIRTNERLSQELEYLTEDVKR LNEKLKESNTTKGELQLKLDEL QASDVSVKYREKRLEQE KELL HSQNTWLNTELKTKTDELEAL GREKGNEILELKCNI
20270	50638	A	20386	120	7384	GWTRFPRVPPRESPAGGRARAT ERGDRGGGPGVWVLLVFAFL RFYPVGRCHWGPWAPPTWAA VLQQVL\ERTELNKL\PKSVQNK LEKFLADQQ\SEIDGP*RGGHGE I*RWESQYFEIEKRLSHSQER LVNETRECQSLRLELEKLNNQL KALPEKNKELEIAIQDRNIAIQ SQFTRTKEELEAEKRDILTNE RLSQELEYLTEDVKRLNEKLKE SNTTKGELQLKLDELQASDVSV KYREKRLEQE
20271	50639	A	20387	2	433	
20272	50640	A	20388	2	181	GFRRVSLF*FPGVRWGMRL GAPDLAPFSQM*SGGRAPCVAS *PPCRGLRLMRTGSRR



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20273	50641	A	20389	1	2422	MAGALAGLAAGLQVPRVAPSP DSDSDTDSSEDP SLRRSAGGLLR SQVIHSGHFMVSSPHSDSLPRRR DQEGSVGPSDFGPRSIDPTLTRL FECLSLAYSGKLVSPK WKNFK GLKLLCRDKIRLNNAIWRAWYI QYVKRRKSPVCGFVTPLQGPEA DAHRKPEAVVLEGNYWKRIE VVMREYHKWRIYYKKRVSGG GPGRQSFPPAAAGYRPPRKIPG KGILTPELAPLGPSIQSRADSAT VWPQRLLAASLPRGRLRKPSRE DLLAPKQAEGRWPPPEQWCK QLFSSVVPVLLGDPEEPPGGRQ LLDLNCF LSDISDTLFTMTQSGP SPLQLPPEDAYVGNADMIQPD TLPQLSLDDFMDISDFFTNSRLP QPPMPSNFPEPPSFSPVVDLSFSS GTLGPEVPPASSAMTHLSGHSR LQARNSCPGPLDSSAFLSSDFLL PEDPKPRLPPPPVPPPLLHYPPP AKQETVPEFPCTFLPPTAPTTP RPPPGPATLAPSRPLLVPKAERL SPPAPSGSERRLSGDLSSMPGPG TLSVRVSPPQPILSRGRPDSNKA LLGSFLGSPNSLLPETENRRITHI SAEQKRRFNIKLGFDTLHGLVS TLAQPSLKVSKATTLQKTAEY ILMLAQQERAGLQEEAQQLRDE IEELNAAINLCQQQLPATGVPI THQRFDQMRDMFD\DYVTRRT LHNWKFVWVSSLKPMAGGLQ
20274	50642	A	20390	315	387	
20275	50643	A	20391	570	1017	FCLHILQVPHTLAGHSPCAHG/R PPLPRF/HDRLPEEIQQQIVRETF HLVLKRDDNICNFLEGGSLIGG SDYKLIYRHYATLYFVFCVDSS ESELGILDLIQLEQFKKDNEETG FGSGTRALEQALEKTKANIKW VKENKEVVLQWFTENSK
20276	50644	A	20392	1	1128	
20277	50645	B	20393	62	130	

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20278	50646	A	20394	99	718	ENRGWQSMIQAILVVNNHGKP RLVRFYQRFPEEIQQQIVRETF HLVLKRDDN\CNFLEGGSL*L GGSDYKLIYRHYATLYFVFCV DSSESELGINLDLIQVFGNSWIS CFENVV*IW*TFHMDK\VHYIL QEVVMGG\MVLETNMNEIVAQ IEAPNRLEKSEG\GLSAAP\ARA VSAVKNNILPEIPRNINIGDLNIK VPNLSQFV
20279	50647	A	20395	3	370	SLHLAAILGETSTVEKL/YAAGA GLCVAERRGHTA/LHLACRVG AHACARAL/LQPRRRPREAPD TYLA/QGPDRTPTDNHTPVAL/Y PDSLEKEEEEESHTPLHVAVIH K/DVEMVRLLRDAGADLDK
20280	50648	A	20396	2	1097	SRQSPATGGRLRWAPDAALAM AVVACLGQAADSDKWGDSRLS SLGPDAAPGGPGLGAELGPG SWAPLVFGYVTEGDTFSAGT EYMDLQNDLRQVSHEGWCR WGPGFPV*LPTACPLLLQTALH LAAILGETSTVEKLYAAGAGLC VAERRGHTALHLACRVGAHAC ARALLQPRRRPREAPDTYLAQ GPDRTPTDNHTPVALYPDSLE KEEEESEEDWKLQLEVENYEG HTPLHVAVIHKDVEMVRLLRD AGA\DLDKPEPTCGRSPLHLAV EGPRQADVLELLLRAGANP\A ARMYGGRTPLGSAMLRPNP\I LAR\LLRAHGAPEPEGEDEKSG P\CSSSSSDSRLSPSAWSPLPPG
20281	50649	A	20397	47	478	LRLRKLKAIMLAFGRGKTRNSE ESSDSQEVWKTWMFTALGH CGISMFGLDRELTLTNYELFIS SSPTPS*VPQRLCYVVSTFLMYL SLDHLYTGEMKAFLHVLDTQS VNSDAFFVRLSFQYFYKLLCV LWQGTVNKEFI

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20282	50650	A	20398	1	1992	METFVIGWQPAVTVWTIGVAP PPTLEITSQHEIWVAQHPNYIIS VKQESPAPMPWTAVALDSHRS MNTIVNCAREGSTLHAPYESLM PDDLRLWNSFILKSSPSPHSRSM KLSSMKLVPGAKYIRDHCLVK EALTIHKSPILLAAIDLLGNLSG FTDYQSYVIHGCLENNPTLERSI ALFNGISKWVQLMVLSKPTPQ QRAEVITKFINVAKGATAELNL WQHPKIIMLSQVVPGVFSQEH LIRSLHANLHFTVCFPEDPLAM VAGMVQESTCPCEILQLPTTGQ LANWNEMTELVSNGNYCNYR KPFPTCDGLKIPILGVHLKDWIA VHVNFDPWTEEIKVNIVKMHQ LSVTLSELVSLQNASHHLEPNM DLINLLTV/DGLQPADLMHAISL FRTSHRPQGLFL*IKGTSPA EHS DRSCQHFRV*KCSSWESWHGG/ WLSLEE*MSSFLLRSF*KI/YCSR KNVACQTRAVCTNLDALLSS QMSNNHHFSLPAQDEVFEFPG VTAGHRDLDSRAITLVGTSSRK ISVRLQRATTSQATQTEPVWSE AGWGDGSHTFPKMKSKFHDK AAKDKGFAKWENEKPRVHAG VDVVDRGTEFELDQDEGEETR QDGEPAEAVSVGAVAAPGMSE KELLQVDGRTPTRVLRMADLV GISEFRGEPAFV
20283	50651	A	20400	1	417	
20284	50652	A	20401	2	94	

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20285	50653	A	20402	190	2189	AFCPAGTRSAPCPRPRTMTMTL HTKASGMALLHQIQGNELEPLN RPQLKIPLERPLGEVYLDSSKPA VYNYPEGAAYEFNAAAAANA QVYGQTGLPYGPGSEAAAFGS NGLGGFPPLNSVSPSPLMLLHPP PQLSPFLQPHGQQVPYYLENEP SGYTVREAGPPAFYRPNSDNRR QGGRERLASTNDKGSMA MESA KETRYCAVCNDYASGYHYGV WSCEGCKAFFKRSIQELPTLC*I GWYWYQNRDIDQWNRTEPSEI IPHIYNHLIFDKRDKNKKWGKD SLFNK*CWENWLAICRKLKLD HFLTPYTKINSRWIKDLNVRTK TIKTLEENLGNTIQDIGMGKDF MSKTPKAMATKAKIDKWDLIK LKSFCSSLGYLKTENTAKETTIR LNRQPTWEKIFAIYSSDKGLIS RIYKELKQIYKKK/GNPINKWV KDMNRHFSKEDIYAANRHMKK CSSSLAIREMQIKTTMRYHLTP VRMVIIKSGNDRCWRCGEIG TLLHCWWDCCLVQPLWKTWV RFLRDLQLEIPFDPPIPLLG IYPK DYKSCCYKDTCTRMFIAALFTI AKTWNQPKYPTTIG*IKKMWHI YTMEYYAAIKKDEFI/SLVGTW MKLETIILSKLTQEQKTKHHMF SFITGSRTMRTHGCREGNITHW GLLRDSVNMVMTQAH
20286	50654	A	20403	2	907	RVPAMATSSFALPRILGAGARA PSRWLGLGKATPRPARPSRRT LGSATALMIRESEDSTDFNDKIL NEPLKHSDFFNVKELFSVRS LF DARVHLGHKAGCRHRFMEPYI FGSRL\DHDIIDLAEQTATHLQLA LNFTA HMAYRKG IILFISRN RQF SYLIENMARD CGEYAHTRYFM GGMLTNARLLYGPTVRLPDLII FLHTLNNIFEPHVA VRDA AKM NIPTVGIVDTNCNPCLITYPVPG NDDSPLAVHLYCRLFQTAITRA KEKRQQVEALYRLQGQKEPGD QGPAHPPGADMSHSL
20287	50655	B	20404	70	1477	

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20288	50656	A	20405	153	688	AHPLLRSSPEETSRSRKPRCATT NGFLRIPEKTPWSPEVAIHRNR \ITPNKPPTVKSLEKVFC*LDKE AQKEKESQK*KGPVRMPTKTL RITTARKTPACGE\GSKDRWDRF QIEISQSRLH*LCTSPF*DLFKQI TFHQYLSPGV*GEKSPFADALS QISIHTIDDQFVKKKKKKKKW
20289	50657	A	20406	26	603	RPRGTLREYKVVGRCPAHSK CHTPPL\YR\MRNFAP\NHVVA KS/RAFWYFVSQKDEESLPG EIVYCGQGV*ESSPCGSKNFGI WLR\YDSRSG\THNMYRE*PGP *PTAGGCSPSCYPRHGVARHAG PEAHFHFRIERLEEIAGQQNC RRPGCSKQFPRISRKFPLAPPG SLRRQDKPRFTTKRPNTFF
20290	50658	A	20407	161	418	
20291	50659	A	20408	1	2580	
20292	50660	A	20409	3	264	
20293	50661	A	20410	3	302	ALALLSPWVVDGTRHRGAGGG AHPGGSGRTGAHRGGGRLRHG GLQVPSAPREGS*GPARNRAQ RRAVDRTQ*ECSSKEVYT*RLV PPPPLGSHSSPE
20294	50662	A	20411	2	415	
20295	50663	C	20412	1	1230	
20296	50664	A	20413	238	1765	VTAYHAATMNEVSVIKEGWLH KRGEYIKTWPRPYFLLKSDGSF IGYKERPEAPDQTLPLNNFSV AECQL\MKTERPRPNTFVIPCP QLTNIIRGTL/HTLVSPNQRE\EW NPPYQVVPQQPSRGGPKARTP WNNKCGSPK*LSHD*ENGSGGS ASHG/RKVTMNDSTYLNLLGK GTFGKVILFRKKATGR*FA\MK \IFRKKVINAKD*VAHNIQPRAG VLPEHPGNPFLQLR*KYAFDPD TTRPVPL*MEYA\NGGELFF\HL SRERV\FTTEERA\RFYGAIEVSA SEVTWHSRGRGNTRDNQSWKT LMLEQKMAHIK\ITDFGL\CKRG ASSDGAT\MKTFCETP\EYLAHE \LEDNDYGRAVDWWGLGVVM YEMMCGRLPFYNQDHERLFELI LMEEIRFPRTLSPKASLLAGLL *KDPKQRLG\GGPSDAKEVME HRFFLSINWQDVVQKLLPPFK PQVTSEVDTRYFDDEFTAQSITI TPPDYDSLGLLEAGPADPASP QFSYSASIRE

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20297	50665	A	20414	192	866	LSCRMRLVLGQNPTLDSIDRS GVRSKCRIFNKLRESFHYNsAE LTISVNMSYNCCSGNFSSRSCG DYLRYPASSRGFSYPSNLVYST DLCSPSTCQLGSSLYRGCEIC WEPTSCQTSYVEVQAPAKTSC YRPKNLPCSASPCKTTYSGSLG FGSSSCRSLGYG\*GSCYSVGC SSGFRSLGYGGCGFSLGYGVG FCRPTYLASRSCQSSCYRPTCGS
20298	50666	A	20415	312	1420	RSHSNAVPSVWNLTLPLDSGPH QSPASTTGPCNTERSSVPMSCS PPACPTQCVLCSTEGQIYCGL TTCPEPGCPAPLPLDSCCQACK DEASEQSDEEDSVQPLHVVRHP QDPCSSDAGRKRGPPTAPTGL SAPLSFIPRHFRPKGAGSTTVKI VLKEKHKKACVHGGKTYSHGE VWHPAFRAFGPLPCILCTCEDG RQDCQRVTCPTTEYPC\RHPRK WPGKCKICPEDKADPGHSEIS STRCPKAPGRVLVHTSVSPSPD NLRRFALEHEASDLVEIYLWKL VKDEET\*GSGEVKYLAQGHTA RIFHLTQIKKVRKQDFPERGTA LPTARWPPRRSLERLSPDPGAE GHGQSRQSDQDITKT
20299	50667	A	20416	17	1008	KSGARSLQPOFLRAPEDGGPLS LPNAAMARGPKKHLKRVAAP KHWMLDKLTGVFAPRPSTGPH KL\RECLPLIIFLKDQTLNALT GD\EVKKI\CMQRFK\DGKVRT DITYP\AGFMDVI\SIDKTGREFP VL/YLIDTQGVRFCL\*HRIYTLR EGQSTSLCKVRKILLWAPKGIP\ HL\VTH\DAR\TIR\YPDP\LIQGE MNTHSRLI\*KTGK\IT\*FPSKFDH LVTCVMVTGGANLGRNWVLI TQQRSTLGSF\*PLVHVK\IDAN GNKLLATSDFSNIF/VVIGKGNK PWISLAPRGKGIPIPHHLEERDK RLAAKQSSWVKWGPWVTWSD
20300	50668	A	20417	1	1377	
20301	50669	A	20418	1	2178	
20302	50670	A	20419	158	250	

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20303	50671	A	20420	1	860	MDQTVKSLMASEEEYSTKEEK YEKEMKLLEEKLEAETRAEF VERSVAKLEKTTDDLEETLASA KEETWRFIRPGTRPYWNSATCF LLPGHKMAAEVHKLNPVSEH DQERWHD AFGNGGADNHSKL QASTRRGGPLSQELLQSLAASL AAGGLTALSAEFTIGKGELMAH DVLWGAPDEYDDLISGTCSHL PKGKTHDVLGTGSDGGRHSNTS LA WGAGVQFNPTESVAIDIA YE GPGSGDWRTDGFIVGGLFCGV NMAVKIS\GV LKDG TGKPVQN* TIQLKAKRNSTTVVNTLASEN PDEAGRYSMDVEYGGQYSVILL VEGFPPSHAGTITVYEDSQPGTL NDFLCAMTES\ DARPEALGRFG LYWWKEVARNASIAVGQNTA AAKKSASDASTSAREAATHAV DAGGFKNAQARTSSPDKAGSA GFKQGFP RGGNGINKRAT*RIK KVACR*SLMASEEEYSTKEEKY EKEMKLLEEKLEAETRAEFVE RSVAKLEKTTDDLEETLASAKE ETWRFIRPGTRPYWNSATCFLL PGHKMAAEVHKLNPVSEHDQ ERWHD AFGNGGADNHSKLQA STRRGGPLSQELLQSLAASLAA GGLTALSAEFTIGKGELMAHDV LWGAPDEYDDLISGTCSHLPK GKTHDVLGTGSDGGRHSNTSLA WGAGVQFNPTESVAIDIA YEGP
20304	50672	B	20421	34	800	
20305	50673	A	20422	130	368	RQVITTL YIPYRRRLSPDPPEQ PLNHKQNRKVNHGGTEFQVVV LPFPKMKINCYRRNQFFLFFFST VKVPVGWSMVPLQAATAGAR L*NSDISPLKSQQTQDKFPSSKP PHIYIKK
20306	50674	A	20423	1	57	

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20307	50675	A	20424	85	874	GPRGLVSMAGGSVEVTPSTFTC YLRPPSASPPTPPSHPGLLPRSPA LCSLHTGARTLPLFGGGRCSA VLP RP GP/RAGSGSGQRERFHR FQPTYPYLQHEIDLPTISLSDG EEPPP*QVPCHLQVR\DPKQQL\ ELNRE\SVGAPPNRTIFDSDLMD SARLGGPCPPSSNSG/ISAPTCYG \SGGRMEGPPPTYSEVIGHLPG GPSFQH\Q\QSSGPPSLLEGTR\L HPHTHSRP*RSAAIWSKEKDKQ KGHPSLGSPGGPGLGLRR
20308	50676	A	20425	3	250	ESVSATEDLAPDAAQGEDNSEI KELL\RENEPLPACNGPAQAQPS PTTERAKSQEEVLPSTTSPGG ALSPSGQPSSSVDA
20309	50677	A	20426	2	393	
20310	50678	A	20427	1066	1824	
20311	50679	A	20428	3	902	
20312	50680	A	20429	1	2163	
20313	50681	A	20430	1	1890	
20314	50682	A	20431	1	2882	MKQQLPVSYLQVIFNHWASRIS GARGAGWGPVRLGRLCADRAL DGESRPGGGGQSGVPASEASQ KAAHGRRLPVPARLLRCAHSA LEPGRGSASSPRNSTTSDNDQPP DYSFSKRCDSHSLGFSLVWESR NLTLPPTSKLLHFSAFHFFIYKC RAEGHKLYKDLKNFLSAVKVM HESSKRVSETLQFIYYSEWYGH EELKAIVWNNDLLWEDYEEKL ADQAVRTMEIYVAQFSEIKERI AKRGRKLVLDYDSARH



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20315	50683	A	20432	1	1791	MPGARTSSSGASENHRARGQG GGPQGVGRMAEGKAGGAAGL FAKQVQKKFSRAQEKVLQKLG KAVETKDERFEQSANNFYQQQ AEGHKLYKDLKNFLSAVKVMH ESSKRVSETLQEIYSSEWDGHE ELKAIVWNNDLLWEDYEEKL\ ADQAVRTMEIYVAQFSEIKE\RI AKRGRKLV DYDSARHHLEAVQ NAKKKDEAKTAKAEFEFNKAQ TVFEDLNQELLEELPILYNSRIG CYVTIFQNISNLRDVFYREMSK LNHNL YEVMKLEKQHSNKVF VVKGLSSSSRRSLVISPPVRTAT VSSPLTSPTSPSTLSLKSESESVS ATEDLAPDAAQGEDNSEIKELL EEEEIEKEGSEASSSEDEPLPA CNGPAQAQPSPTTERAK\SQEE VLPSTTTPSPGGALSPSGQLSSS ATEVVLRTRTASEGSE\RPKKT ASIQRTSAPRRPPPPRATASPRP CSGNIPSSPTASGGGSA\TSPRAS LGTGTASPRTSLEI\*PNPE\PPEK PVRTPEAKENENIHNQNPEELC TSPTLMTSQVASEPGEAKKME DKEKDNKLISADSSEGQDQLQV SMVPENNNLTAPEPQEEVSTSE

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20316	50684	A	20433	158	1830	QLQSKMKLFWLLFTIGFCWAQ YSSNTQ/SKGRTSIVHLFEWRW VDIALECERYLAPKGFGGVQVS PPNENVAIYNPFRPWERYQPA VSYKLCTRSG\NEDEFNRNMVTR CNNV\GVRIYVDAVINHMCN\N AVSAGTSSTCGSYFNPWKLRTF PAIPYPGWDFNDGKC\KTGSGD IENYNDATQVRDC\RLTGLLDL ALEKDY\VRSKIA\EYMNHL\IDI GVAGFRLDASKHM\WPGDIKAI L\DKLHNLNSNWFPAGSKPFI\N QEVIDLRVGEPNLKASDYFGNG RVTEFKYGAKLGTVIRKWDGE KMSYLKKWG\EGWGFMPSDR ALVFVDNHDNQRG\HGAGGASI LTFWDARLYKMA\VGFM LAHP YGFTVRM\SSYR/WAKHSFKKG NDVNDW\VGPTQINNG\VIKEV TINPRH*LVGND\WV\CEH\RWR \QIRNM\VNFRNGSGMAQPFLQ NWYDNGSNQVAF\GRGNR\GFI VFNK*WPVIFI*LCKPGLPAGSY CDVISGDKVIGNCSAIPVSVD GKAHFSMSNSAEDPFLAIHAES KIVKFKICKSAKQKKKKKKG RPF
20317	50685	A	20434	3	383	
20318	50686	A	20435	1	378	CASGSSGWRPVLWAGAFTMAS AELDYTIEIPDQPCWSQKNSPSP GGKEAETRQPVVILLGWGG\SK DKNLVKYSIAIYHKRKLLELLFD YEIEKEPPAFSLSSATVASCCTA TCWSSCRPVASAACV
20319	50687	A	20436	1	558	CASGSSGWRPVLWAGAFTMAS AELDYTIEIPDQPCWSQKNSPSP GGKEAETRQPVVILLGWGGCK DKNLAKYSIAIYHKRGCVIRYT APWHMVFFSESLGIPSLRVLAQ KLLELLFDYEIEKEPLLHVFVSN G/VRHAVPLTCWELLQTRRFCR LRVVGTFIDSAPGDSNLVGGSA GLGSHPGARG

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20320	50688	A	20437	78	1237	CWSHSDTYWPRTTPRPPPPGRPG PVVHLAQPV LHPEAGIPEFWES GSPGQTRGAALVLT VHICVSEN SPSPGGKEAETRQPVVILLGWG GCKDKNLAKYSAIYHKRNTAT LQPPLTYMRGWGLFLT GAPAD QYLIQIKRISQWLRGCIVIRYTA PWHMVFFSESLGIPSLRVLAQK LLELLFDYEIEKEPLL FHVFSNG GVMLYRYVLELLQTRRFCLRL VVGTFIDSAPG*QQPG*GL\SGP GQPSWERRARPMLRLLLLVAF ALGGSSCFHVLLAPITALFH THF YGQAYRTRALAWPELYLYSRA DEVVLARDIERMVEARLARRV LARSVDFVSSAHVSHLRDYPTY YTSLLCRTSMRKLRLPKAIAPS HLCSQKINALKPSP
20321	50689	A	20438	3	427	
20322	50690	B	20439	101	1099	
20323	50691	A	20440	733	2228	

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20324	50692	A	20441	582	2595	PPPVRRRDPGPAVRPAGAMA KKS AENGIYSVSGDEKKGPLIA PGPDGAPAKGDGPVGLGTPGG RLAVPPRIETWTRQMDFIMSCV GFAVGLG\NVWRFPYLCYKNG GGVFLIPYVLIALVGGIPIFFLEIS LGQFMKAGSINVWNICPLFKGL GYASMVIVFYCNTYYIMVLAW GFYYLVKSFITSTLPWATCGNY/ TWKHSPTCVEIFRHEDCIANAS LANLTCDQLANRIRSPVIEFWE NKVLKLSGGLEVP GALNWE\V TLGLLACWVLVYFCVWKGVK STGKIVYFTA/THYPYVVLVVL LVRGVLLPGALDGIYYLKPDW SKLGSPQVWIDAGTQIFFSYAIG LGALTVLGSYNRFNNNCYKDA IILALINSGTSFFAGFVVSILGF MAAEQGVHISKVAESGPGLAFI AYPRAVTLMPVAPIWAALFFF MLLLGLDSQFVGVEGFITGLL DLLPASYYFRFQREISVALCCA LCFVIDLFMG\TDGGMYVFQLF DYYSASGTTLLWQA\FWECVV VAWVYGADRFMDDIACMIGY RPCPWMKRICWSFFTPLVCMGI FILNVVYYEPLVYKQN/TYVYP WWGEVAMG\WPFALS\SM LFVP L\HLLGLPSLRAKGHPWLKRW QH\LT\QPIWGLHPL/EELPRFRD ADVQGT LTHP*TPVSESSKVVV\
20325	50693	A	20442	1	363	MGKRGILLIEACIAIAQPLQRW FVVP PRAGMPVTYD/HSNSAAG SPPV*NARLCSPGEKVL CRSQT GNFPHTPQEQA VPSAWNALPV QP*SH/GPSPMLVPCRCVCPMET RVQGSASPGGQG
20326	50694	A	20443	747	1389	LGAVQLCPPPCR PCHRAALPGG LFPPRPPHSPQAGPLHPQWTQ* PGSVGSPTQLSPEASRPQWPPT A\GSPRAGVHPGHGQA*SADISS AKQWTQVGPAGQGGSKFGKT KVPWQSGPLGWDPGARAGQG VG*ETRGPSLQLAWS DGEGV/P GWRGSYRGHRRGP*PPAPWPW SGGHPGSPMEWPCPGTELQMR NRAGSRDLHSLGRAPPAATAPS

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20327	50695	A	20444	90	1181	RAEPHLQVPGVPGSAQKPQGT QMAPVSPRRGPQRGWHTLGAQ RLLPQAALSSPAFPQHPGGRWA PRRRGQSSQGHSPESLPSERAQP HWNHPQLLSPCTPLSCP*GGPR QA/EQAGDSGSGTWVGLGAAP SERGAPMSARHWLRAPGRRPIF LLSALW*TPAWGGGPAASRSP GGPSSRVVGCPLCPLAPGPVPS VE*RPMSTKDLPPSPR*KP/PA GPAPV*/SPKAVGIPAWERPPTTR PETEGAGGSCAERLLAPVEMAP VSRGQRRDPEPGSRHG/DPPTDT AALGGPRPPQHLPRTRQHWEI* GPGAPPTDTAALGDLRPQSPGL LMELGPISRDPHGRGPWQGPV GKLWPGGQGSCPQSPPV
20328	50696	A	20445	2	957	IPSRKDHEKAEFEVHEVYAVDV LVSSGEGKVRVPPELAKRGD*E CSPDQMLLKLLFQAKDAGQRT TIYKRDPKQYGLKMKTSRAFF SEVERRFDAMPFTLRY*AMIVL GTSLTHRPYTQEHFFLSLPA*TC SVHVLTPSLSLPISFSLKVM*KS NPKHDFCLRVGAILKYEQNGK T*WGVKDTSEYHLPCQAFEDE KKARMGVVECAKHELLQPFNV LYEKEGEFQKELHFGFPDYKISF L*VQKS*V*QRNFLSKHIFIFAIG EFVAQFKFTVLLMPNGPMRITS GPFEPDLYKSEMEVQDAELKA LLQSSASRKT
20329	50697	A	20446	85	266	

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20330	50698	A	20447	207	1759	LSQRALRLSPRARSFSLSPACPL PCLLALSLALSSRIEGTLTTACG WGRETEAAAAQGKRGCSGGSR KMSGEDEQQEQTIVD/DSL VVT KYKMGGDIANRVLRLSVEASSS GVSVLSLCEKGDAMIMEETGKI FKKEKEMKKGIAFPTSISGTIN *PI/CHFSPFERSD\QDYIPPRKGD LVK\IDLGVPCWMGFIANVASH/ SFVVDVAQGTQVTGRK\ADVIK AAHLCAEAA\RLVKPGNQNT QVTAEWKNVAHSFNCTPI\EG MLSHSLKQHVIDGEKP*FQNPT DKQK\RAHEKADFEV\HEVYAV DVLVKPQERARPKDAGQRTTIY KRDPSKQYGLKMKTSRAFFSE VERRFDAMPFTLRAFEDKKA RMGV\VECA\KHELLQPF\NVLY EKEGEFVAQ\FKFTVLLMP\NGP MRITS\GPFEP\DFYK\SEMEV\Q DAELKALLQSSAKSEKPQKKK KK\KASKTAGEWPLVAFSAVLE TFRRKWKLGGLEVGPISPACCS CLHPPSHQTPRLCEVQFFST
20331	50699	A	20448	1	3825	
20332	50700	A	20449	1084	2429	ARERSLRGSPAREEREKERKCTA LSE*GEQMERKTNS*TKQTE*N RNEIGPRGAGPPGDAGSGRQPA LRPHVHKQTEKTTRVRTVLNE KQLHTLRTCYAANPRPDALMK EQLVEMTGLSPRVIRVWFQNK RCKDKKKSILMKQLQQQQHSD K/SGEQPLGRRLESGGGCASAA VSACPFLGEPWEIQGELGAPDG VCLYLHASKASLGFEASYFVWD RGFSLSQWQPRVAGSGRCAEP KAAWQCAAPASRAGGLCTPSA AAERSPVEKEGSSDAIECAPPR KAMQTLNHSRPGAPVSKVAEK ARPNSSTYCLLLAPQSLQGLTG TPLVAGSPIRHENA VQGS AVEV QTYQPPWKALSEFALQSDLDQP AFQQLGLLSAGGRSPRDTFRLG ARGPGAPARVPLHLPLPGVSAA P\VSFSESGSLGNSSGSDVTSLS QLPDTPNMVPSPVET
20333	50701	A	20450	133	276	
20334	50702	A	20451	2	205	WDTSS*SLRTPRSRQVSTRPRR KKEKLPSKGMFSSVSLPQVLTQ RHQRPTCSWSLCWQPQHILLR S

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20335	50703	A	20452	182	411	GRAWPAPPTSVTPRLRSPAESP RWPSAEERSSLP/VRGRRPGYG* VSCCGPRAPPGVNGDALRSARP AQLPA*RPQRH
20336	50704	A	20453	786	1208	GVHRGTHGRQKWRPCAPRAQ HSWGPGRRLPAGCRG*AGSCA/ PSLGL*CGAGPQGWGRDP*TR RRTPRRPPRGPRPRVWMAPPAR SHPWRAAPRSAGAAPRPLGLG GRSGRETRPAPGELQRPAAAG PPLMSCGWRVVLA
20337	50705	A	20454	385	727	KAMSPVFPRHSKWDLDSRPLF TSAALLSACKILKLKVDKNKM VATSGVKKSYI*STV*TTREDW TAGRQRTWRCIYSTTEEKEDSG *SPSKGNGEGRGDAT*TTER*RS DTGL
20338	50706	A	20455	568	3382	HPGWVARGPGAGEGHAAGCG PARCQAGGPLQDGGCGGQGHR FGGGHVPEIKGGGFPHAGACAL EERQPR*QP*GVGKRGGGLFHA SSSPSSGGSRTPEAEG*GGAVCR AGDLGHIDDAGDHGDSGK\KE RVEEEGGKPKHVLSTSGVQSD AREPGEESQKADVLEGTAERLP PIRASGLGADPAQAVVSPGQGD GVPGPAQAFPGHLPLPTKVEAK APETPSENLRTGLELAPAPGRV NVVSPSLEVAPGAGQGA
20339	50707	A	20456	762	1245	LRQYSVKMRIVPTILLNFGADP DLRDIRYNTVLHYAVCGQSL\S LVEKL\LEYEADLEAKNKDGYT PLL VARY*QLIPKLVKFLLE\KG ADVNASDNYQRTALILAVSGEP PCLVKLLLQGGGEICNEG\MVD SQLRNMFISMVLLHRYPQFTAS HGK\QKHAK
20340	50708	A	20457	346	608	PKRRGAPLPVIPQSAS*KPKLPM GRPPPPVPSVSPGPLPGSLAIAP HSLEPHLVQSSCLVPPKTKQS KRKPGRGAQAPTLPNATEFSVC RNDPKEGGRSP*FPNRLLEPE APPRPSAGESPRPAAA/SPLPCSE EK/PTPQLCARERLAPSAAPPPP PRCGPAPLLEPSAWTPELARRA

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20341	50709	A	20458	340	889	SAPFSSGERTPGCPEASPFPGGG GGNARPSGPAPHPSSAS*KPKL PMGRPPPPVPSVSPGPLPGSLAI APHSPEQLVQSSCLVVPKTK QSKRKPGRGAQAPTLPNATEFS VCRNDPKEGGRSP*FPNRLL PEAPPRPSAGESPRPAAA/SPLPC SEEK/PTPQLCARERLAPSAAPP PPPRCGPAPLLEPSA\EAEEGGW GAGPLGRALPPPPPGKGLASGQ PGVRSPDEKGADQRQPSGPRLC SAPAPPRRS/PPRRRRPSNFVPED QPHYVPGSASAGPRRSRPPRR ELGAPSHLP
20342	50710	A	20459	148	397	GHKELVTGTEAIELAHAYETCH AVPRTIAKLVPKTHLMSESEW RNLGVQQE/RQGWVHYMIHEP E\*HFGCSRRLTQGTQRK
20343	50711	A	20460	139	272	VLKPGGSYSFGSPSCNSSH*LIG FQKWKDVPCEDKFSFVCKFKN
20344	50712	A	20461	440	1167	ARDSLQLSMAQTSSYFMLISCL MFLSQSQGQEAQTELPQARISC PEGTNA YRSYCYF*WKTRET WVDADLYCQNMNSGKLGVC GSPRAEGCLFWPQLI*GGVGT* WTFNVLDLGLQ*PPKRTRRWH WEQWGPLVSLQSSWGHWEPPS RCLNPGV\VCVSLDLQSTRISRN WKDVFPVKDK\FSFVCKVQKT RGQAGKIQCLELTPAITNGVQK LNRTISPTQLNLVTLFSAEFALLI FNSFT
20345	50713	A	20462	3	322	
20346	50714	A	20463	1	420	DLYELVQYAGNIIPRLYLLITVG VYVKSFPQSRKDILKDLVEMC RGVQHPLRGLFLRNYLLQCTR NILPDEGEPTDEETTGDISDSMD FVLLNFAEMNKLWVRMQHQG HSRDREKRERERQVSWRCKCG TLQ\QIVLTG
20347	50715	A	20464	1	1446	



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20348	50716	A	20465	3	2564	LGAGAACCRLWGVAMPTTQQ SPQDEQEKLLEAIQAVKVQSF QMKR\CLD\KNKRIGVRHKTML RNMLG\ELRTSMLSPKSYELY MAISDELHYLEVYLTDEFKGR KVADLY\ELVQYAGNIYPQGF YLLVHSLSCNNVKSFPQSR\DI LKDLVEMCRGVQH\PLRGLFLR NYLLQCTRNLPEDEPTDEETT GDIRDSMDFVLLNFAEMNKLW VRMQHQGHSRDREKRERERQE LRILVGTNLERLSQVE/WCKCG TLARQIVLTGILEQVVNCRDALA QEYLMECIIQVFPDEFHLQTLNP FLRACAELHQNVNVKNIIIALID RLALFAHREDGPG\IPADIKLFDI FSQQV\ATVIQSR\QDMPSE\DV VSLQVSL\INLIAMKCYPDRVAD YV\DKVLGNNSGRIFNKLNLLEHI ATSSAVSKGNFTRLLGKLPVGH FTNNILT\VLAKLKHFHPLFGYFD YESRK\SMSCYVLS\NVL\DYNT EIVSQDQVDSIMNLVSTLIQDQ PDQPVEDPDPEDF\ADEPEALV ARFIHLLRSEDPDQQYLILNTAR KHFGAGGNQRI RFTLPPLVFAA YQLAFRYKEISKVDDKWEKKC QKIFSFCPTKT\ISALIKAEL/AQE LPLRTFSFKGGT*LA/AGELGFG NHG\TVAYEFMSQGIFSVWKD/ EKSGDFPKAQLGWPF TFGSIGA L FERVEVLSVEEDSWNPLR\TQ
20349	50717	C	20466	23	385	
20350	50718	C	20467	16	435	
20351	50719	A	20468	1	436	
20352	50720	A	20469	1	747	
20353	50721	A	20470	1	864	

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20354	50722	A	20471	2	2138	VGRAAAAAA VAVPLAGGQE GSPGGGRRGSRGTTMVKKRKG RVVIDSDTEDSGSDENLDQELL SLAKRKRSDSEEKEPPVSPQAA\ SSDSETSDSDDEWTFGSHKHKK KGQARTLEQKGTMMKKQANKT ASSGSSD/RTDSSAESSAPIEEGE VSDSDSNSSSSSDSDSSSEDEE FHDGYGEDLMGDEEDRARLEQ MTEKEREQELFNRIEKREVLKR RFEIKKKLKTANKKEKKEKKK* QEEEQEKKKLTIQESQVTSHN KERRSKRDEKLDKKSQAMEEL KAEREKRKNRTAELLAKKQPL KTSEVYSDDEEEEDDKSSEKS DRSSRTSSSDEEEKEEIPPKSQP VSLPEELNRVRLSRHKLERWCH MFFFAKTVTGCFVRIGIGNHNS KPVYRVAEITGVVETAKVYQL GGTRTNKGLQLRHGNDQRVFR LEFVSNQEFTSEFMKWKEAM FSAGMQLPTLDEINKKELSIKEA LNYKFNDQDIEEIVKEKERFRK APPNYAMKKTQLLKEKAMAE DLGD\QDKAKQIQDQLNELEE RAEALDRQRTKNISAIYINQRN REWNIVESEKALVAESHNMKN QQMDPFTRRQCKPTIVSNSRDP AVQAAILAQLNAKYGSGVLPD APKEMSKASVGQGDKDLNSK SASDLSEDLFKVHDFDVKIDLQ VPSSSKALAITSKAPPAKD GAP
20355	50723	A	20472	438	709	FLSQSWIFKQIRASRTLFLVAFS SNTFTSCRSFCSSSEAMGAGSG RSPQLQPRRRNRKPRAEPSNR AQTPTRTS/LRRCSLRPHRPCAR SR
20356	50724	A	20473	2	1315	ILQKRIGGF LDALVRNSQPARYI NDYQLSNYGLDMLGPSLD PAP MASEELQKDLEEVKVLLEKAT RKTEKSKIEIKNKLQQKSQK KAELLDNEKPAAVVAPITTYT KGGGGEERGGEAPTSNEAQAT EVRGGAGGGKDKDDGDRER/P RKTRGGRARTE*NNRHEQ*IQI KKRRETEKERRNEKGRRRHKT ATQKRREERRARRVGEGTRK REQPAHEQEHA TTTHTRPPAP/R RTRKTQTHNRKERKKEE
20357	50725	C	20474	43	162	

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20358	50726	A	20475	2	363	YEPLDSNKRIGTSSSSYVLCLCS SLAIFSNFMGNLLSFCGVLKLLK SLACIH*RFFFN*A**VFIHSSRE Q*FINVCSSCPAFFNPERRNELY ASLLSFVPSALVPIFEDNVSYLF VKSF
20359	50727	A	20476	505	2294	VYSDAKSIYCLLFAHSQRPPCV FNENDPQNSGTVHTVFLVGLTD HRHARAKIESWAGEAAPFTLV AASADKLFGDLHISKYCGRIAV SVFQFQQYCGLCDSTS/SLQQY CGLCGST*HSGSTVASVAGLHI VAVPWPLWQDFTLWQYRGLC/ AQDFTLWQYHGLCGRTSRVAV PWPLWQYFTLWQYCGLCGRTS HC/GQYRGLCGRTSHCGSTVAS VAGLHVWQYCGLCGSTSRC/E QYHGLCGRTS/RLWQYHGLCG RTSYC/EQYRGLCGSTSRCG/MY RGLCGRTSH/WWQYCGLCSSTS YCSRTVA\WQYFIL\CSTSY/W QQYHGLCGNTSYCGIL\QLQQY SGLCSSTSYWGSTVASVAVLHI AAVLWPLRQYFILQQNRGFCG NTSYCG/SYFILWQYHGLCGST SYCG/SYFILQQYHGLCGSTSYC /EQYRGLCGSTSYC/TQYCGLCG SSSYC/AQNCGFCGNTSYCGSTS /VLQQYHGLCGSTSYCGRTV/V FCGSTSYWGSTSYCGSTVASLA VLHIVAVLCPL*QYFTTNKTKN KTKPGSCHLTYFGGAAGGPSL* APGGVAGTVGSASRSASWGLP EWICCLRDPKSLSPFYWGFEVW
20360	50728	A	20477	2	554	LSSTGGLHAGRLCCSPCLLVIPL KSSQHIFRV\NTNIRLGRRKNS PLPITAHLRVWARRYA\HVVL KADIDLT\K\RAGEL\TEDE\VER VITH\ILQNPRQYKDPKTGFFEQ DKKDV\KDGKYSQVPSQLVWD NKLP*KTWEPTERRFRAH*/RGL RHFLGAFRVRGQAHQEPLGRR GRHRWVCPRRK

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20361	50729	A	20478	50	774	LFGVVYTGFC LGVWTAGVGGV PGPNFPRPILTLVRGP*GKGVG WVAGPGQLRPTGPWSI*VSHPT PPGPLSISYRAQAAGGQGPAPI THPQGRQEP*RQLPPGGPLA/RH PPKAPDPARPHP/RQHRGPS/ST APKGRCWQHKQEPSGHPAGHT PGRPG/PPQAPPRPSPWVGPGPQ TPTPCP*DEPHRPPGLQPWRPFS PLAMAPMGRLQALPGLDQRGQ TVSPLRLLGALES LAWLPSAFIA
20362	50730	C	20479	156	908	
20363	50731	B	20480	1	804	
20364	50732	C	20481	278	551	
20365	50733	A	20482	169	1144	INYSLEKHVGALGRVLFSL*RA GCPGMGSTRERGLYLKHRGS GGIW*ALAGP*KSRGDSVSLTQ GHTHVCSRSPR*ADSPPG/SHLS PVPHSVEVAGHVLPATRAAV PCSASAGA*QSTYRTGVHQGNP TV*TK/PSRRPSGGVAK*FLPSA VRGEPGAKPLVDDLLPGWSLA THGQPPLVAAPGSLWGRPAD A*GCETAGGSPCPRSTSRPSGPS GVQGCPLG*AGSGASASRSEPP GSTSCCPRAPIT*PAAPCVDPWP AGDQWRSHGYLPPSREL*G/W MPPSRPATLPQLAFARQRQGNR FDAAFESSGEDFHQMPRVGRM
20366	50734	C	20483	31	90	
20367	50735	B	20484	48	197	

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20368	50736	A	20485	5447	5642	PRDMESCYNPGLDGIIEYDDFK LNSSIVEPKEPAPETADGPYLV VEQPKQRGFRFRYGCEGPSHGG LPGASSEKGRKTYPTVKICNYE GPAKIEVDLVTHSDPPRAHVAHS LVGKQCSKLGICAVSVGPKNM TAQFNNLGLVHVTKKNNMMGT MIQKLQRQRLRSRPQGLTEAEQ RELEQEAKELKKVMDLSIVRLR FSAFLRASDGSFSLPLKPVTSQP IHDSKSPGASNLKISRMDKTAG SVRGGDEVYLLCDKVQKDDIE VRFYEDDENGWQAFGDFSPD VHKQYAIVFRTPPYHKMKIERP VTVFLQLKRKRGGDVSDSKQF TYYPLVEDKEEVQRKRKALP TFSQPFGGGSHMGGGSGGAAG GYGGAGGGGSLGFFPSSLAYSP YQSGAGPMRCYPGGGGGAQM AATVPSRDSGEEAAEPSAPSRT PQCEPQAPEMLQRAREYNARL FGLAQRSARALLDYGV TADRR ALLAGQRHLLTAQDENGDTPL HLAIIHGQTSVIEQIVYVIHHAQ DLGVVNLTNHLHQTPLHLAVIT GQTSVVSFLLRVGADPALLDRH GDSAMHLALRAGAGAPPELLRA LLQSGAPAVPQLLHMPDFEGLY PVHLAVRARSPECLDLLVDSGA EVEATERQGGRTALHLATEME ELGLVTHLVTKLRANVNARTF AGNTPLHLAAGLGYPTLTRLLL
20369	50737	A	20486	3	346	PQTITDELWVTLTVEVWDIST/ LFPGN*SHA/TLPSH*NLITLTP NANI/AIPQHALKGLKPVITRL QHGLLKPINSYNSPILPVQKLD KSYRLVQNLRLINKIVSPIHPV PN
20370	50738	A	20487	1	808	YGTSLLLPWQLITCPLPSH*NL ITLPLNANI/AIPQHALKGLKPV ITRLQHGLLKPINSYNSPILPV QKLDKSYRLVQNLRLINKIVSP IHPVVPNPPAFTSQITQAVSQAL GIQWNLHIPYHPQSSGKVERTN GLLKVHLTKLSLQLKKDWTVL LPLALLRIRACPRDATGYSRFEL LYGRTFLLGPNLIPDTSPLGDYL PVLQQAQAAANLLLPTDPQPH EDTLAGRSVLVKNLTPQTLQPR WTGPHFIYSTPTAVCLQDPPH

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20371	50739	A	20488	2	513	CCPIASEAQ*TITDAELWVTLTV EAQSLLRVFLSYLPTLTHKYGT SLLLPWQPITCPLPSR*NLITLTP LN/GQYPIPQHALKGLKPVITRL LQHGLLKPINSPYHSPILPVLKP DKAYKL VQNLRLIYQIVLPIHP VVPNPYTLSSVPPSTTHYSVL DLKHAFFTIPLQP
20372	50740	A	20489	1	1893	
20373	50741	C	20490	1	1806	
20374	50742	A	20491	1	645	MTSGPQINQPKKHLTNFKSEPS DL/FPSSPGCSLPAED*RCPIALE AP*TITQARVTLIVEGKSVPLV NTEATQSTLPSFQGPVSLASITV VGIDGQASKPLKTPLLWCQLG QHSFMHSFLVIPTCPVLLGRDI LTKLSASLTIPGLQPHLIATLLP NPKPPSCLPLLSPHLNPQVWDIS TSLATDHMPITIRLKNHPYPAQ RQYPIPQHAKD
20375	50743	A	20492	113	328	LGSGAWGGDLPEINPLSSCS LLREKDLLTTS GPQTTS PRNISP ILNRDPTVQLTWQPLPELELW PKAL
20376	50744	C	20493	183	254	
20377	50745	A	20494	1	511	MWKGPKGLDMYGKSSVSPKTS DILGRDTHLLALKVQTVVLQTA CGEGHVAGNCGRPLETEGSLQ LTATKKLRDSVLQPKSPEFCQQ FTRAWNRTQVPDETEAPAGTY AAQSGDLPWEINPLSSCSLLHE KDPPTASGPQTTS PRNISPILNR VSEVSDHAGTPALVLHP
20378	50746	A	20495	1	1108	MWESLELPGNIFNGFDQNADN DMDDEIQAEVISDGDEEFVGN WNKPRDLVPCILATLALTKRGQ DTAQTMASEGARPKHWQLPGG VGPVGAQKSRIEWEPLPIFRR MYGKACMSRQKFAAGAGFSW YVPVAVVGAKVHDVNLHMLS FPSKWKLHTCMKFGAVTQIVTS LGRSSCSLLLEKDPPMVLRTSP RNISPISNLTKETRFIRGPKTPAP VTDWEGSLPLVFHNCRDASLII HPGFRGVRPRRDACLSPSPLAN LNLTFKVYNNRKKLQFLAFTV RQTSAMSPA HKNFQTPEPQRPG IPPEPPPGACYKC/HEIRPPGQG MPAAQDSS*ATS/LSVRDPTGN WTVQLTWHPLPELELWPKAL

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20379	50747	A	20496	128	302	TAAARHSSRTSSPRSLQVLEI WPSGQGMPPAAWDSS*AASHL WQPLPEP\LELWPKAL
20380	50748	C	20497	80	106	
20381	50749	A	20498	196	575	
20382	50750	A	20499	1	505	TKETRFIRGPKTPAPVTDWEGS LPLVFNHCRDASLIHPGFRGVR PRRDACLSPLANLINLTFKVY NNRKKLQFLAFTVRQTSAMSP AHKNFQTPEPQRPPIPPEPPPPG ACYKC/HEIRPPGQGMPPAAQDS S*ATS/LSVRDPTGNWTVQLTW HPLPEPELWPKAL
20383	50751	A	20500	372	563	LRSADLPWEINPLSSCSLLHEKD PPTSSGPQT\TSRNPISILN/PEK KETRFIRGPKTPAPVMD
20384	50752	A	20501	96	505	WS*QP*GLGSHRHHRRRHHRSS SSSSSSSSSSSKSNSDWQPLPEPL ELWPKAL
20385	50753	A	20502	79	207	
20386	50754	A	20503	583	736	
20387	50755	A	20504	99	246	DLIFHQRHSVSAESLTMHGLNN *QTSKRVRVQ\TWQPLPEPLE LWPKAL
20388	50756	A	20505	654	719	
20389	50757	A	20506	71	951	LRSGDLPWEI/NPLSSCSLLREK DPPTSSGPQT\TSRNPISINPR/ PKETRFIRGPKTPAPVTDWEGS LPLVFNHSRDTSLIHPGFRGVR PRRDACLGPSPLAASPTFLGKG PAAPRQTELGPNSSASAPPPYN PFIASPPHTWSGLQFPSMTSPPP PAQQFTLKKVAGAKGIVKDLIN LTFKVYNNRKKLQFLASTVRQ TPATSPAHKNFQTPELQQPGVP PEPPPRGACYKFQKSGHRAKEC LQPRIPKPHPICVGPHWKSDCP THLAATPRAPGTLAQGS\TPSQI

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20390	50758	A	20507	1	1010	CSEYEDSSPAPVPATDLSSTLSS SVPQPQDTGTSQQHLPLDPWHE LLRAQELQGATNHKGYSHAHEH EHAGLG VQGGNGALAFSNSGH RHAVPTISSGTGRRRTPSSSAFG LLNLHQWFVSGFQAFSDRLKA ALSASLLLRFGDSDWLPSSSAC KCLMLGLHFVIVGNICATLKEK YSSMLHLDVTMKNKEKRTRL QKRKKGMPPHPAYEDLNIAAIT LPANVVLHQPSGFRSTSGQLDPV WWSLDTDAHEIWCQDPGLGSG DFPWEITPLSSYSLLHEKDPPTT SGPQTTSRNPISNPQRQRQV LSMDPKLRHRSRTGKAAPWC LIIAGTPL
20391	50759	A	20508	3	539	IVDDCGGAFTMGVIGGGVFQAI KGFRNAPVCRLLEAPLFIYSCS RSVSPTVNVSSERAESRPTLFM AVSLHMAWCLAHIGIRHRLRG SANAVRIRAPQIGGSFAVWGGL FSTIDCGLVRLRGKEDPWSITS GALTGA VLAARSAPLAMVGS AMMGGILL/ALIEGVSILL/TR*T ATV
20392	50760	A	20509	3	778	GEQRAALPPAPKECTHPNVTNT LVQAESSDAGVRLRWGRGLTA RPDASAMEEYAREPCPWRIVD DCGGAFTMGVIGGGVFQAIKG FRNAPVGIRHRLRGSANAVRIR APSTTGSAFVWGGLFSTIDCGL VRLRGKEDPWSITS\GA\LTGA VLAAP\SGPLAMGGLQQ*WGG ILSAPHLRAFGILL\TR*TA\QQF RKWAPNSLED\PSQLPPKDVTP APGYPSYQQYHLRKPLATMGA TSSVPFPDGLTKGRAGFP
20393	50761	A	20510	1	231	LRWRVWSLSLLMFRCVRSFFLL VGSWSRWFRSEAADLCGECYS S*GSTSGVVRFSRWACGLAGLR SEAADLAPPTSC
20394	50762	A	20511	318	494	



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20395	50763	A	20512	1	1234	MNMNIKKIVKQATVLTFTTALL AGGATQAFAKENNQKAYKET GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPQQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDNISDSWKNAGR VFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTDYSGSLLRSQM PCADLSILKEAAETLDSTSTRNS AFLGNTHDEAPIVHVFIPLAYS TNIWSLIFNPTTMMIMCSRDL SSCENKRVDLAFGLVYSGTPVQ KLEQMKFSPQLGCNHFESKDR NDFLFAPEEIEKDPQGESLLCDF MTKTPKAMATKAKIDKWDLIK LKSFACTAKETTIRVKNQPTWE KNFAIYPYDKGLISRIYKELKQI YEKKIKQPHQKVDERRLLNLTT DRLTGEKAYRFIKVQVLRVTQ GMKIQRRARSKELQGDGDEIQR WKRLHSPRLLGEEPRIIFKLD SANDMHKSAPFSSLQSPLWHQP VMQEVERQYKEKKDLVREGG KCRCQGRPGKVVLTELSLEAR GGWMEDIPSRRTSKCGPWELV SHCVQNWWVLGLTDFKNEAS DPRGVKLQTFTVSVTALKAAAR LELLVLPGLLVSLASGVKLQT FAVSVTAHKRSVDPKTEGAGS GLGQPRKGLSQCSSGPKG*YPE STKNLNLKFTRKKSNNPIKRLMK
20396	50764	B	20513	1	531	
20397	50765	A	20514	1139	1562	GALQPTAALWEPLSGLAKARA GTLSQLGSVEGVA*AGTGAAC GACGPDGVPGGRLGGPRTGS SRPALSHFITEEDKDQRVQDQL GGVWHRMEIHEQHVGKQQEE GDVEDHIPGEDHEGGGEERHIV PKQLLVLDVDRFLPK
20398	50766	A	20515	1	1597	
20399	50767	A	20516	461	1601	

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20400	50768	A	20517	1	914	MNNLRRAALRAVTLTAKVCSF TPEPARPQTHQKEETPNTSEHQ KEQTPDTPPLRTVTLTARVHGF LEVSETKNPPIPDTPATREAEG RSRLAVYSTRDSPCVACSGSYT QAQGSGLGRKFQDPVSLFEDLTK NTPEPNLRPITSKPVLVQETLSN FALFLKESNGPVKVGWGS/IKG LT*KALHGFHVH\EFGDNTAR LYQVQGPHEFNPLSQKTTVGPK\ DEESH*DLGQCDCLTKNGVA DVS*I*RFCESSHSSGDHCIG\RTL VVPWKKPDDFGQRVGNE\ESSK TGNAGKSVWPCGVNWIAQ
20401	50769	B	20518	8	173	
20402	50770	C	20519	13	180	
20403	50771	A	20520	3	486	VTETWKCAGIPHYRSFESC/IW NPVINSRMDYAGPVCCKNADI GRCAHEKLRED*DGAAPGEIGI QPEADATPYFATPTPVLTGPGC AAESEPALIGSKQFGLSRNSHI AIAFDDTKVKNRLTIELEVRTE AEFRLLFYMARINHADFATVQL RNGLPY
20404	50772	A	20521	1	459	
20405	50773	A	20522	2	239	SDSSGSREVDPAATTMPGAA GVLLLLLLSGGLGGVQAQRQ QQRQSAHQQRGLFPAVLNLA SNALITTNATCGEKGPEMYCKL VEHVPGQPVRNPQCRICNQNSS NPNQRHPITNAIDGKNTWWQS PSIKNGIEYHYVTITLDLQQVFQ IAYVIVKAANSRPGNWILERSL DDVEYKAWQ*HAVTDTEAL TP*PN*SPELGHQRQAQD*\EVI CTSFYSKIHPLNGEIHISLINGR PSADDPSPELLE
20406	50774	A	20523	2	445	
20407	50775	A	20524	1	2765	MGRRRLLVWLCAVAALLSGA QARGTPPWRLR/LPGASRYSL YTTGWRPRLRPGPHKALCAYV VHRNVTCILQEGAESYVKA EYRQCRWGPKCPGTVTYRTVLRP KYKVGKTVTDLAWRCCPGFT GKRCPEHLTDHGAASPQLEPEP QIPSGQLDPGRPPSYSRAAPSP HGRKGPGFLGERLERLEGDVQ RLAQTYGTLSGLVASHEDPNR MTGGPRAPAVPVGFGVIEGLV GPGDRARGPLTPPLDEILS

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20408	50776	A	20525	2	363	RFTK VEMKEK\MLSAAREKGR VTHKGK PISLKADLSAETLQAR REWGPIFNILKEKNFQPRISYPA KLSFISEQEIKYFTDKQMLRDFV ITRPALKELLKEALNMERNNW YQPLQKHAKL
20409	50777	A	20526	1	1566	
20410	50778	A	20527	1	1604	MAILFEMRLGQQSSAKFPGFQS SFFPVIPV NKP SGKFKRDRHFS STRLLWPDCQISQLWGGYLRK KGSSPSQGLIDKTPSPWKKAPR ERGCGRSFSRFKHPCLTALKR AADLPAQHSSSAKDT SQKGPTD TSYRRALAGIWQVPPLGRSFQK KDQAAIFAVVQPLQVIPRQTGS GVDLQQT SADWQQRGLTVRR KTNKQKGIACSLKDPIRGHQHQ RPKDNHNSPAREQNWTENEFD KLTEVGFRRWVITNSSELKKHV LTQCKDAKNLERSLEELLTRIPS VEKNINDLMELKNTARELREA YTSFNPIDQAEERISVIEDQFN KINREDKIREKRIKRNKQSLQEI WDYVKRPNLQLIGVPESDKEN GTKLENTLQNIQENFPNLAREA NIQIQEI\QRT PQRYSLRRATPRH IISV/RFTK VEMKEK\MLKAVRE KGR\ VTHKGKPIRLTTADLSAET LQARRQSGGQYFNIL*RGIFQP R\ISYPA\KLSFISEGEIKYFIDK\Q MLRDFVTTRDWPALKEHQAC
20411	50779	A	20528	58	1081	SSMAKPC\GVRLSGEARKQVEV FRQNLFOEAEVEFLR\FLPQKII YLNPA SFQEDFPFNVA*/LLNLS SGAPLGHPPIRPLHPKDDME TDKAGRRKEVP*SVGFFPWGN* GKFL\SLVCPGLKPE\WDFSKR NCILGDLHWIQTDPSPRFEDGN DFGGSQSRKKVLEKG*MPVKT KV\EA FQTTISKY/FSSERGDAC GPRPPKETHVMDYRALVHERD EAAYGELRAMVLDLRAFYAEI VKSSGIGAHVSFKVQNIHSSYC SGPTVSPTCVTGLPASQSPDSG AQLASSSGSHTCAAGGAACQS RALRLHSSALGWSMGLGTVEQ GAALIEEVQAAQEPTG

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20412	50780	A	20529	1632	1932	KEGCELCRCCCRPGPPASSHGQ PHHVFPFH/VLSMASPWA VSPSS VNVSQFFIC/TCQDAKTEWLDC KHVVFGKVKGDMNIVEVMEH LGSKNGKISNQQEDHHC
20413	50781	A	20530	245	740	GAWKARSDCCSNP*NYVNRLE LFADKVPKTAEKFQALSTGEK GFGYKGS LFHRIIPGF/TCQSGD FTRPYSIGGKSHLPGRNLMTRT FILKHTGPGILSMANAGPSVNV SQFFI/CPAKMPRTEWLDCKHV VFGKVKGDMNIVEVMEHLGSK NGKISNQQEDHHC
20414	50782	A	20531	135	1427	GKPTFASRQQPLAEECPASSAL QRRWLWRWRWLRRRRRQR RSSGSCQGQPAGPLGGPPANRG AAPQGSMAMNNAKDEV DGG PPCAPGGTAKTRRPDNTAFKQQ RLPAWQPILTAGTVLPFIIFGLI FIPIGIGIFVTSNNIREIEIDYTG EPSSPCNKCLSPDVT/PCFCTINF TLEKSFEGNVFMYYGLSNFYQ NHRRYVKSRDDSQLNGDSSAL LNPSKECEPYRRNEDKPIAPCG AIANSMFNDTLELFLIGNDSYPI PIALKKKGIAWWTDKNVKFRN PPGGDNLEERFKGTTKPVNWL KPVYMLDSDPDA*WIHK/DDFI VWMRTAALPTFRKLNRLIQRK SDLHPTLPAGRYSLNVNAYYP VHYFDARKRMIMSAISWMGGK NPFLGMA YFAVGAI SFHLGVAL LGINHKYRNSSNTADITI
20415	50783	A	20532	1	370	
20416	50784	A	20533	1	1104	LREFANFDFDIWRKKYMRWM NHKKSVMDFFRIDKDQDGK ITRQEFIDGILSSKFPTSRLMSA VADIFDRDGDGYIDYYEFVAAL HPNKDAYKPITDADKIEDEVTR QVAKCKCAKRFQVEQIGDNKY RFGDSQQLRLVRILRSTVMVRV GGGWMALDEFLVKNDPCRAK GRTNMELREKFILADGASQGM AAFRPRGRRSRPSSRGASPNRST SVSSQAAQAA\SPQVPATTPK GTPIQGSKLRLPGYLSGKGFHS GEDSGLITTAARVRTQFADS KEGLPSRPGSSSLEAKFGSR\AS SRRGSDASDFDISEIQSVCS DVE TVPQTHRPTPRAGSRPSTAKPS KIPTPQRKSPASKLDKSSKR

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20417	50785	B	20534	527	4627	
20418	50786	A	20535	37	315	
20419	50787	A	20536	1314	1577	HGSGSAPTCRWPRQTQGRCREIC ADGFSGVMRNCTG*EAASGR* CKSFVHVYLQLRCACSVCHSA GSDSFQLQRSPTPTSTCTHALV
20420	50788	A	20537	1	1652	MQATKTESGRNGKPGQPSNRC HYLLNQGWVANSKGKGRTNIP DKELKSGDDPENVHITSFQYLA LAAFPRGRARDLQLAMTEPPHP SVGSCAARASLTSAAPCSTAPSP INHPKAECEGCTARDWQAAPP AARVRDPLGEASWAPSEYVC NCSVVGSLNVNRCNQTTGQCE CRPGYQGLHCETCKEGFYLN TSGLCQPCDCSPHGALSIPCNSS GKCQCKVGVIGSICDRCDGY YGFSKNGCLPCQCNVRSARCD ALTGACLNCHENSKGNHCEEC KEGFYHSPDATKECLRPCSAV TSTGSCSIKSSELEPECDQCEDG YISPNCNKCENGYYNFDSICRK CQCHGHVYLISTPKICKPESGEC INCLHNTTGFWCENCL*GYVH DLEGNCIKKEVILPTPEGSTILVS NASLTTSVPTPVINSTFTPTTL* TIFSVSTSENSTALADVSWTQF NIHILTVIIIGVVLLMGFEGAGY MYRENQNRKLNAPFWTIELKE DNISFSSYHDSIPNADVSGLVED DGNEVAPNGQMTLTTPHNYK
20421	50789	A	20538	1	177	
20422	50790	A	20539	1	480	
20423	50791	A	20540	410	896	FSCLKRMHIKAMPEDAKGQDW IALVKAAAAAAKNKTGSKPR TSANSNKDKDKDERKWFKVPS KKEETSTCIATPDVEKKEDLPTS VSETFGLHVENVPKMVFPPQPEST LSNKRKNNQGNFQAKRARLN KITGLLASKAVGVDGAEEKED YNETAPMLEQV

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20424	50792	A	20541	1	1526	LKDEEDFFDFKAGEEVLARWT DCRYYPKIEAINKEGTFTVQF YDGVIRCLKRMHIKAMPEDAK GQVKSQHPLSWCCPIDPAGSCN QSMGSEDWIALVKAAAAAAA KNKTGSKPRTSANSNKDKDKD ERKWFKVPSKKEETFNLLLATP DVE/RRKEDLPTSS/EKHL*GLH VRRNVPKMVFPQPESTLSNKRK NNQGN\SFQAKRARLNKITGLL ASKAVGVDGAEEKKEDYNETA PMLEQA\ISPKPQSQKKNEADIS SSANTQKPALLSSTLSSGKARS KKCKHESGDSSGCIKPPKSPLSP ELIQ\VEDLTLVSQLSSSVINKTS PPQPVNPPRPF\KH\SERRRRSQR LGTLP\MPDDSVKVVSSPLSSPL D/EGKVFS/LSSSSKISQESS/IPE VPDVA/HICPLEKLGPCLP\LDLS RGSEVTAPVASDSSYRNECPRA EKEDTQMLPNPSSKAIDGRGA PAAAGISKTEKKVKLEDKSSTA FGIRSWDFSALLMKIPSYSPISLS GLPES
20425	50793	A	20542	363	1187	FHITMCGICCSVNFSAEHFSQDL KEDLLYNLKQRGPNSSKQLLKS DVNYQCLFSAHVLHLRGVLT QPVEDERGNVFLWNGEIFSGIK VEAEENDTQILFNYLSSCKNES EILSLFSEVQGPWAFIYYQASS HYLWFGRDFFGRRSLLWHFSN LGKSFCLSSVGHPIWNWQISG KKFQHLDFRIDLKSTVISRCIIL QLYPWKYISRENIIEENVNSLSQ ISADLPAFVSVGSQMEGQTVSL EKPVVPLNMDVATSWHWETH AVFFPCATYR

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20426	50794	A	20543	1140	2372	CCHKLHWRLIAVIFPMCHLQER YFKSFLLMYT*KEVIQQFIDVLS VAVKKRVLC LPRDENLDSQME VLENV**GKANVGNPVFWGGL D/CPWLLATLLDRHIPLDEPLVL LNVAFIAEEKTMPTTFNREGNK QKNKCEIPYPKNFSKDVAAAA ADSPNKTCQC\PDRTGRAGLK ELQAVSPSRIWNFVEINVSME LQKLRRTRICH LIRPLDTVLDDS IGCAVWFASRGIGWLVAQEGV KSYQSNAKVVL TGIGCRWSNL QGYSPPSSVS AFKSHGLGRIGIKE IMMELGRISSEILGRDDRIVIG DHGKEARFPFLG*/RMLSPFLNS SARFGEKANLDFTPRGIGEKLPF NALQPVELG\LTASALLPKRAM Q\FGSRIAKMEKINEKASDKCG RLQIMSLENLSIEKGTKL
20427	50795	B	20544	70	464	
20428	50796	A	20545	18	552	
20429	50797	A	20546	1	1257	
20430	50798	B	20547	223	342	
20431	50799	A	20548	9	5293	KIHRHRLSPATEKGAASSGED KDPPPPAHEDIAVKGTATAAGT GPGTGAAAAAAAAA VPPHPNI RALQTQAPQQIPRGVPQQPLED RIFTPAVSAVYSTVTQVARQPG TPTSPYSAHEINKGHPNLAATP PGHASSPGLSQTPYPSGQNAGP TTLVYPQTPQTMNSQPQTRSPF FPKGLKIQPPRATIPNSKSFPFV PGAQTPTAVYQG*FRHIMMV NHLPLPYVPVQGPQYCIPQYRH SGPPYVGPPQ
20432	50800	A	20549	1	78	
20433	50801	A	20550	1	2805	MAKGFYISKSLGILGILLGVAA VCTIIALSVVYSQEKNNANSS PVASTTPSASATTNPASATTL QSKAWNRYRLPNTLKPDSYRV TLRPYLTPNDRGLYVFKGSSTV RFTCKEATDVIIHSHKKNLTLS/ QGHRVVLRLPPDIDKTELVEPTE YLVVHLKGS LVKDSQYEMDSE FEGELADDLAGFYRSEYMEGN VRKV VATTQMQAADARKSFPC FDEPAMKAEFNITLIHPKDLTAL SNMLPKGPSTPLP
20434	50802	A	20551	1	239	
20435	50803	A	20552	1	654	

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20436	50804	A	20553	161	3193	GSLSR LPTITMAKGFYISKSLGI LGILLGVA AVCTII ALSVVYSQE KNKNANSSPVASTTPSASATTN PASATTL DQSKA WNR YRLPNT LKPDSYQVTLRPYLTPNDRGLY VFKGSSTVRFTCKEATDVIIIHS KKLNFP LSQLGHRVVL RGVGGS QPPDIDKTELVEPTEYLVVHLK GSLVKDSQYEMDSEFEGELAD DLAGFYRSEYMEGNVRKV VAT TQMQAADARKSFPCFDEPAMK ARFNITLIPPQGT
20437	50805	A	20554	3	429	
20438	50806	A	20555	3568	4012	VLSTSFPGTELNPPISPLAVNSTE LLKGELSLSSLGVLSLSDTSVPN SVSNSFLLGLRKRLGRGVGISC NALSALDLAACNFSLMRPLME NSAKPVLEVEGIGG/TA FDAGA GIALSDHFIKLISWYDNEFGYSN RVVDLMAHMASKE
20439	50807	A	20556	1	1211	QTAASSFASPGEPHRSNTMGKV KALVNGFD RIGRLVTRAAFN SG KGDIVAINDPFIDLNYMVYMFQ YDSTHGKFHGT VKAENGKLV I NGNPITIFQ\ERDPSKIKWG*HG AEYVVVESTGVFTTMEKAGAH FAGGSQKGHSSFAPSTEAIMFM MKVNYEKYDNSLKIISNASCTT NCLAPLAKVIHDNSGIVERLMI TVHVITTTQKTVDGPCRKL RPD GHRALQNIIPASTSTAKAMVKV IPELNK KLTGMASHVPTAKVLV VDPTCH/LGKPAKY YDIKMM KQASEDPIKGILGYTEHQIVSSD FNSDTQSSTFDAGAGITLNDHF VK\ LISWYDNEFGYSNSVVDLM AHVASKELSGYSLKVSFAVQK LFSLIRSNLSIIAFDAIVFGVFVM KSLPVSICRM
20440	50808	A	20557	1	300	PTANVSVDLTCL* KPAKYD DIKKVVKQASEGPLKGILGYTE HQVVSSDFNSDTHSSTFDAGAG IALNDHFVKLISWYDNEFGYSN RVVDLMAHMASKE
20441	50809	A	20558	1	3399	
20442	50810	A	20559	1	3126	
20443	50811	C	20560	298	435	
20444	50812	A	20561	1	888	
20445	50813	B	20562	1	4536	



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20446	50814	A	20563	37	3900	LGLGLSMLVGQGAGPLGPAVV TAAVVLLLSGVGPAHGSEDIVV GCGGFVKSDVEINYSLEIKLYT KHGTLKYQTDCAPNNGYFMIP LYDKGDFILKIEPLGWSFEPTT VELHVDGVSDICTKGGDINFVF TGFSVNGKVLSKGQPLGPAGV QVSLRNTGTEAKIQATATQPG GKFAFFKVLPGDYEILATHPTW ALKEASTTVSVTNSNANAASPL IVAGYNVSGSVRSDEPMKGV KLLFSSLVTKEDIA
20447	50815	A	20564	1	310	EEETVPTTAGASPGPPRNKKNR ELRPQRPKNAYILKKSRIKKPQ VPKKPREWKNPESAAAS*GGE GQAHGGPAICPGQICALSQTPG LPGNSLSPRSPVGK
20448	50816	A	20565	3	267	
20449	50817	B	20566	267	560	
20450	50818	A	20567	1	429	LIGLDPEPLAEVDVISLEQGRRK QIERLGYPQAKAPFQPKPKQK GRSSTASLVKRKRKVMDEE\NR VK*TIGNGPGLPKGCTLPACAL CPCQPAHFLTLCVSLPSPVPQD KVRQSLQQQHKEAK/APKPTG ARPSALDRFVR

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20451	50819	A	20568	2	1951	FKPTVWQLRGVLHVDRLFVWA SMETAPKPGKDVLSKDKLQT KRKKPARRYWEEETVPTTAGAS PGPPRNKKNRELRPQRPKNAYI LKKSRISSKKPQVPKKPREWKNP ESQRGLSGAQDPFPGPAPVPVE VVQKFCRJDKSRKLPHSKAKTR SRLEVAEAEETSIQSLLRSEL LLAEEP\GFLEGEDGEDTAKICQ ADIVEAVDIASAAKHFDLNLRQ FGPYRLNYSRTGRHLAFGGRRG HVAALDWVTKMLMCEINVME AVRDIRFLHSEALLAVAQNRW LHIYDNQGIELHCIRRCDRVTRL EFLPFHLLDTASETGFLTYLDV SVGKIVAALNARAGRLDVMSQ NPYNAVIIHIGHSNG\TASLWESS YGREPLAK\ILC\HRGLGSGAVA \VDSYRHVTWATSGP*DHQLED LDFDFARGRY\QPLEHSGPCPMG AGHLAFSQRELL/VLAGLGDVV NIWAGQGKASPP\SLDRPYFTH RV\*GPVHGLQFCPFEDVLGVG HT*G\ITSML\VPGAGEPNFDGL\ ESNP\YRSRKQRQEWVVKALL EKVPAELICLDPRALAEVDVISL ETGKRRKQIERLGYPQAKAP FQPKPKQKGRSSKA\TLVKRK RKVMIEDHKG/DKVRQSLQQQ HHKEAK\AKPTG\ARPSALDRF
20452	50820	A	20569	1	437	
20453	50821	A	20570	157	425	

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20454	50822	A	20571	207	1562	LVIVFFYPQHTAPGPPLTVLNQ AMHARGPHGQLSPALPLASSVL MLLMNLAHLGQPWMLGPLTW HISPFSLPVHRLTHALGHTALP GLLLSLLLLPTVGWQQECHLGT LRFLHASALLALASGLLAVLLA GLGLSSAAGSCGYMPVHLAML AGEGHRPRRPRGALPPWLSPW LLLALTPLLSSEPPFLQLLCGLL AGLACILCLSPGPVGMCGFCG WVPGKEVAQRGEGPSNTKEPC THIAWPVAAHPWLLLVLDR PPCPGQTDAAAGAFRWLEPSERR LQVLQEGVLCRTLAG\GMPVQ VVGTVAGLPVRPSSLP/SSSRPPI PGPPYVASPDLWSHWEDSALPP PSLRPVQPTWEGSSEAGLDWA GASFSPGTPMWAALDEQMLQE GIQASEVGSPIGAGVALTLPTS PPTPNRLQQLERMGFTEQAVV ALAATGRVEGAVSLLVGGQ
20455	50823	A	20572	460	916	AHSPRDHPWTVLNQAMHARGP \HGQ\SPALPLASSVLMMLMST LWLVGAGPGLVLAPELLLDPW QVHRLTHALGHTALPGLALLS LLLLPTVGWQQECHLGTLRFLH ASALLALASGLLAVLLAGLGLS SAAGSCGYMPVHLAMLAGEG HRPRRPRGALPPWLSPWLLLAL TPLLSSEPPFLQLLCGLLAGLAY AAGAFRWLEPSERRLQVLQEG VLCRTLAGCWPLRLLATPGSLA ELPVTHPAGVRPPIPGPPYVASP DLWSHWEDSALPPPSLRPVQPT WEGSSEAGLDWAGASFSPGTP MWAALDEQMLQEGIQ\SLLD GPAQEPQSAPWLS\KSSVS\*MR LQ\QLERMGFPTTEAAVVALA\ ATGRVEGA\VSLLVGGQSGT\ET LVTHGKGGPAHSEGP\GPPWAN CPQHCLLASSVLMMLMSTLWL VGAGPGLVLAPELLLDPWQVH RLTHALGHTALPGLAPEPAAP AHCGLAAGVPPGHAEIPACLS ARPGFWAAGSAAGRPWAVQCS RQLWIHACPPGHAGWGRTPP
20456	50824	A	20573	174	401	CTVVFSVLAELSCTSRFCPNMW TPLREPMTENGRWGLSVRVLE HGGNQSNSACGPEPPEGEMGS* LEED*LPALIP

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20457	50825	A	20574	450	1029	ATQLPPQPWQTPAALGWAAAT SLMPYRAPSPPARAQHPPALCL APPPPLWLQLPHLEASHSLVEA RPNPPVSTLAQQGIQPSRHLPR CPSLRPRQPPQQVP/PQPAAPT PTATITSTGPSLFASIAAPTSSA TTGLSLCTPVTTAGAPTAGTQG FSLKAPGAA\APPQQHPPPLPPP PPPPPPAAAPPALP
20458	50826	C	20575	115	276	
20459	50827	A	20576	3	307	ASRLGPREGGARKNPGGPCSAT QYISVPSPGAASFVVLGSQSLLT TVSPPLPA*/LAMAL*PRPLCA PGSPRSRPLRSPLPPSFFSRGRR RLSLLQPWSE
20460	50828	A	20577	2	388	
20461	50829	C	20578	244	487	
20462	50830	B	20579	5	569	
20463	50831	A	20580	204	676	RTDQYPQRGETEEGLEQQLPH RQLPGGLGAHRGPDACGLRD SSRGVPLAGSPLRVR*GRGHDL RQSGGVRPGGGSNRGLVVAGD ARGRAAPLAGGVPAAADRSRL PGVPAAREPHGPTAPDPDSAA EPGAVSTLRAEPTPQPVVSTGC CSSTWN
20464	50832	B	20581	1	1413	
20465	50833	B	20582	60	224	
20466	50834	B	20583	8	2469	
20467	50835	A	20584	841	1436	HHQVPLPVGRERGGKRGPGSW ETCLSVLGAIPPSEPWPVSPSW VHSLVPGEQALPLICSQPPMAP QWPETGPGPHLVHRTCRVCLN WQGMTRTRGYQAGPSSRRTIPT PAQLPAPLASLPPRQDPPSSPAE PPSGRFSMEPWWEPAHPPGSP AAPCSSHRIT/APPTPSLAAQPG/ PVGSNPPLSPEGLCLAGTPACG W
20468	50836	A	20585	1799	5195	SKGNGSPSTTQTQTPRAAPDGS LSEETPAGPPTCSVPASALPRQ QYAKSLPVSVPVWGFEK RTE ARSSDEENGPKPKPASVDANTK LTRSLPCQGS LKRATSCERAGK AVGEEVSGYSLHGCSKERRRRP RLKKEGGSGEPGVGYLFISVLV NSNSELIRLINNAIKNDLASRNP TFMCLALHCIANVGSREMGEA FAADIPRILVAGDSMDSVKQSA ALCLRLLYKASPDLVPMGEWT ARVVHLLNDQHMGV

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20469	50837	A	20586	8	268	SRSSRTWSPiPEKEKTKLQKQR EDELlQKIHKLVQKRDFLVDDA EVERLREQEEDKEMADFLRIKL KPLDKVTKSPPI*QSQRAHL
20470	50838	C	20587	50	196	
20471	50839	A	20588	16	1263	SLSSRCMMVAEQGCALEPCQG LSHGAALGVLMVVFP/VSSLQQ DQLDIISMAETTMMP\EEIELE MAKIQRLREVLVRRESELRFMS FEEQYNEDHKKGVIDLFTADSL KTMTRLVTGVWLAYLA'ATASN PLQEGEHAGEQIGAGGCRSRLE GGALTWDPVLLPPVRISRMLLL LLIPGELPGIAFKLMNPTKAEPM HMFIILEPFDLRKLMDDIQLCK DIMDLKQELQNLVAIPGCTRSM MLVSAQLLEGLRKLIIAEDKG ADMSRAQSRSKRPPKMLICLLV DVFFPEKEKTKL\QKQREG*AN PRRFHKL VQKRDFLVDDAEVE RLR\EQEVEDKEMADFLRIK\LP LDKVTKSPASSRAEKKAEPPI\S KPTVAKTGLALIKDCCGATQC NIHVSPHVGCPCGPWGPPTLLS
20472	50840	A	20589	31	339	
20473	50841	A	20590	1	1179	
20474	50842	A	20591	1	1167	PARSMAATSLMSALAARLLQP AHSCSLRLRPFHLAAV/RGNLSL GQVGVQCCNHGLLQP*PPGLK* SSHLSLNEAVVISGRKLAQQIK QEVQRQVEEWVASGNKRPHLS VILVGENPASHSYVLNKTAAAA VVGINSETIMKPASISEEELLNL INKLANDDNVDGLLVQLPLPE HIDERRICNAVSPDKDVGDFHV INVGRMCLDQYSMLPATPWGV WEIIRKTGIPTLGKNVVVAGRS KNVGMPIAMLLHTDGAHERPG GDATVTISHRYTPKEQLKKHTI LADIVISAAGIPNLITADMIKEG AAVIDVGINRVHDPVTAG\PGL VGNVDFEGVRQKAGYITPVPG GVGPMTVAMLMKNTIIAAKKG AEA*RSEKVLKSKELGVATN

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20475	50843	A	20592	1	1963	MAASDVNCGACFAELQGNATA NTPGGTSHHHTLAIHGSCCHDSQ AKEAGRKRQWPWPPDGRSEPAP DSHPHLSPEALGYFRRALSALK EAPETGEERDLMVHNIMKEVE TQALALSTNRTGSEMLQELLGF SPLKPLCRVWAALRSNLRTVAC HRCGVHVLQSALLQLPRLGSA AEEEEEEEDGKDGPTELEEL VLGLAAEVCDDFLVYCGDTHG SFVVRTLLQVLGGTILESERARP RGSQSSEAQKTPAQECKPADFE VPETFLNRLQDLSSSFLKDIAVF ITDKISSFCLQVALQVLHRKLA QFCAHICNAVIGYLSARGSSVD GKPLLLFLRDQTSFRLLEQVLL VLEPPRLQSLFEEHLQGQLQTL AAHPIANFPLQRLDDAVTTPEL LSPVFEELSPVLEAVLAQGHFG VVIALVGACRRVGAYQAKVLQ LLLEAFHCAEPSSRQVACVPLF ATLMAYEVYYGLTEEEGAVPA EHQVAMAAARALGDVTVLGSL LLQHLLHFSTPGLVLRSLGALT GPQLLSLAQSPAGSHVLDAILTS PSVT\PSCAA\CLQN\KG\TNIVA LACKSP*QPRVLKCHLEWSSLE GP/RRKIAAELGEQNQEL\KEPP FGHHVARNVALTTFLKRREAW EQQQGAVAKRRRRALNSILED
20476	50844	A	20593	55	393	
20477	50845	A	20594	150	379	

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20478	50846	A	20595	1	2408	MGVWGIRTPFMVVVGLESPVGS SPRGQGSCVRLPQRRPDKSHAG ARTGPETLRERAQQSNKLPEW AEKGSHPARWSPNRGGRWTLF TARERRPSRALKARAAGRQA KVADFRLPAAAPPEGAAQLRLE SERLPHQDEKEPSSYRGSCGSCP VTLRKMPYLGSEDVVKELKKA LCNPHIQADRLRYRNVIQRVIR YMTQGLDMSGVFMEMVKASA TVDIVQKKLVLYLMCTYAPLK PDLALLAINTLCKDCSDPNPMV RGLALRSMCSLRMSKLDQWQG AEVLNFLRLRYQPRSEELFDILN LLDSFLKSSSPGVVMGATKFLI LAKMFPHVQTDVLVRVKGPLL AACSSSRELFCVALCHVRQIL HSLPGHFSSHKKFFCSYSEPH YIKLQKVEVLCENVQVQ VLEELRGYCTDVSADFAQAAIF AIGGIARTYTDQCQILTELLGL RQEHITTVVVQTFRDLVWLCPQ CTEAVCQALPGCEENIQDSEK QALIWLLGVHGERIPNAPVLE DFVENVKSETFPAVKMELLTAL LRLFLSRPAECQDMLGRLLYYC IEEEKDMAVRDRGLFYRLLLV GIDEVKRILCSPKSDPTLGLLED PAERPVNSWASDFNTLPVYVY KAHWATISKQGAERCDPKLP KTSSFAASGPLIPEENKERVQEL PDSGALMLVPNRQLTADYFEK
20479	50847	B	20596	330	2458	
20480	50848	A	20597	2	171	
20481	50849	A	20598	32	1040	LQLAKLGDWRMQUALRHVHCR FTEG*FMYSL*LTFFPAGYQVT GVFMKNWDSLADHGVCTAD K\DCE\DA\YRVCQIL\DIPIHQV SYGTEVIFFYSSDFLNEYEKGR PNPDIVCNKHIKFSS*SLCSKNL TGADAIATGHYARTSLEDEEVF EQKHVKKPEGPASWRNCLSVG WFLYTLGQRANIGGLREPWYV VEASPPSHSILQAPRTDHPALYR DLLRTSRVHWIAEPPAALVRD KMECPPPAPLFPVPCVLT NQDGTWVWTAVTPDARVSPLQ FAVFYKGDECLGSGKILRLGPS AYTLQKGQRRAGMATESPDS PEDGP\GLSPLL
20482	50850	A	20599	12	432	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20483	50851	A	20600	2	509	RLHSLLDGYYQAIKVLNIDLS TKSMYSRVPEC\QVTTYYYVGF AYSMRCYQDAIRVFASILLYI HRTNSMFQRTKYKYEMIIMLN EQMHALLAIALTMYPMRI\DESI YLHLREKYVDKMLRMQNGDL QVYEELFRYSCTKFL*PVPPNY DTVHAHYHTESFLQSLRR
20484	50852	B	20601	8	1188	
20485	50853	A	20602	1	257	
20486	50854	B	20603	210	312	
20487	50855	C	20604	49	288	
20488	50856	A	20605	13	446	IPVRPTRPADDESEAAYPDYA YPSDYDMHTGDPKQDLAYERQ YEQQTYQVIPEVIKNFIQYFHK VSDLIDQKVYELQASRVSSDVI DQKVYEIQDIYEN\DAVFLILYK ELYRHIYAKVSFQSFSQYRCK TAKKSEEEIDFL
20489	50857	B	20606	77	611	
20490	50858	A	20607	1	1956	SLVDPRVRPRVRLASEAAMS YPAD\DYESEAAYPDYA\YPSD YDMHTGDPKQ\DLAYE\RQYEQ QTYQVIPEVIKNFIQYFHKTVS DLIDQKVDELQASPCLVIVID QERLYEDSRTIY*EQAWTKL\TE RFFKNTWPWGGWKPLVPQGLA MDA\VSFLDFYPKNYTYRHIYA KVSGGPSLAEQRFESYYNYCNL FNYILNADGSRSPNYPNQWL WGYLSMEFIYPVFSHF\SQYRW *DLPKKSEEEIDFLRSNPKIWN VHSVNLNVL\HSLVDKSNINRQL GGYTQAGGDP*ECGWGSMGR HSLYMM\LYHFSLV\RGFSRLHS LLG\DYQAIKVLNIELNKKS MYSRVPRVPRSPTY\YVGFAY LMMRRY\QDAIRVFANILLYIQ RTKSMFQRT\TYKYEMI\NKQIE QMHALLAIALTMYPMRI\DESI HLQLREKYG\DK\MLRMQK\GD PQVYE*LF\SYSCP\FLAA\VP TYDNVHPM\YHKEP\FLQ\QLKG VFLDEVQ\QQGPAFKPIRSFLKL\ YTTHALLAKPGLASLDPHRGRE FRDPRFLCLSNHQQ*RNVLVLP AGISSPWIGEISVSPQRVDLPTL NKDMIPHRGTPKVPQAVMGDF LHPVRSHKFGGA*SEPLKEGWG QRPWMIFTTHFREPVDVIIGQG
20491	50859	A	20608	2	413	



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20492	50860	A	20609	232	621	
20493	50861	A	20610	1	3590	MAPRKRGGRGISFIFCCFRNND HPEITYRLRNDSNFALQTMPEA LPMPPVEELDV MFSELVDELDL TDKHREAMFALPAEKKWQIYC SKKKDQEENKGATSWPEFYID QLNSMAAGILEGVFVHIVITHC LQNQQQLLHDKQGNRHFI CCL RSHQHPMLPACSNVHLSSFDRK TLCKDALCPLPASHVSRYLKRS LLALEKEEEEEERSKTIESLKTAL RTKPMRFVTRFIDLDGLSCILNF LKTMDYETSESRIH
20494	50862	A	20611	203	3480	SHQEIEQNSAMAPRKRGGRGI AFIFCCLRNNDHPEITYRLRND NFALQTMPEALPMPPVEELDV MFSELVDELADLPDKHREAMFA LPAEKKWQIYCSKKKDQEENK GATSWPEFYIDQLNSMAARKSL LALEKEEEEEERSKTIESLKTALR TKPMRFVTRFIDLDGLSCILNFL KTMDYETSESRIHTSLIGCIKAL MNNSQGRAHVLAHSESINVIAQ SLSTENIKTKVAVLEILGAVCLV PGGHKKVLQA
20495	50863	A	20612	1	338	PGGALRVPDAPAGAEGQELCR SDFPVGGAGVGDEEGVQCPAP AAHRDDTDLRGAH*EVQDAAG RRKQPDREQPAGAEEGAPHLPE RVPPG*RHGTCTDRGQARACG GPLAPE
20496	50864	B	20613	610	6429	
20497	50865	B	20614	28	280	

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20498	50866	A	20615	160	1397	VKMSAQESCLRLIKDFLFVFNLF FFALGSLIFCFGIWILIDKTSFL SFVGL/AAFVPLQIW\SKVLAIS GNLSPWGIALLLGLCWGALK\EL RCLLG\LYFG\MLLLL\LFATQITLE KSSSSNQRI\AQLERSLR\DIVVGK TI\QKYGINPEIETAPEEN\WDYV QSNLRWCGWHYGRDWFKVFIL RGNGSEAH\RVTRS*YNFMAT* NSTILNKVIVHQLTRLEHLARSR HSAD\ICAVPAESHITRKG\CAQ GIQK\WLHNTLIFP*WAICLGVG LLE\LGFM\TSLNIPVEETVDHGL PTGSARYRLGPAPPQSRAPPVVS VRWALPVL\PNICLI\RLAVEPS GVHISPGD\TTWLRAPAAVTSPT GPGAFVHSFLSPSVGLPPPTRLF FTQTSNKPPAFLVNDHKKGGRS KKALEGPNVTRA
20499	50867	A	20616	290	492	
20500	50868	A	20617	1164	2134	NNYNHHHHHHHHHDYYNHH/ HHYHHHHHHHHHNYNHHHHDH HHNYKHHHHHHYHQHHHNYNH HHHHHHSYNHHHHHHHHHHN YNHYHHHHHHHHHHHREYHH HH/HHHHYHHHHHHHNYNYHH HYHHHHHQHYHHNHHHHNHH YNHHY\HHNQYHYHHYHHHD YYHHH/HYHHHNYYYLYNRYH HYHHYHQSNHYRHHHHHHQY HHN/HEPFA/HHT*ILFCS*KQDR NLHCAWPFPPFFNCHHHCHH HHQQQQHSGVKTQSRPESLLP ERCIYLHQKHPLHRPGAPQH KTASWRGQAREAAGSSPSGLSS HTADHEVEAFKRCFYSRF
20501	50869	B	20618	164	1526	
20502	50870	A	20619	1	762	

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20503	50871	A	20620	69	1054	AISCHVVHAGHQQTQITGNDPF PVVTYSKGPNLQSSRSDMDDST EREQSRLTSLCKKREEMKLKEC VSILPRKESPSVRSYKDGKLLA ATLLLLALHACCLTEVSFYQVAA LQGDLASLRAELQGHHA EKLP AGAGAPKAGLGGSSSCSPRDLK IF*TTSSREKAIP/GSEQQK*GVP FQGPEETVTQDCLQLIADSETPT IQKGSYTFVPWLLSFKRGSAL E EKENKILVKETGYFFIYGQVLY TDKTYAMGHLIQRKKVHVFG DELS\LVTLFRICIQNPETLPNN SCYSAGIAKLEEGDELQLAIPRE NAQISLDGDVTFFGALKLL
20504	50872	A	20621	3	855	LQNSHGHTMIRTLTLLSTLVAGA LSCGDPTYPPYVTRVVGGEAR PNSWPWQVSLQYSSNGKWYHT CGGSLIANSWVLTAA\HCISSSR TYRVGLGRHNLVVA\ESGLA/ MSSVSKIVVHKD\WNFNQISKG\ NDIALLKLANPVSLTDKIQ\LA\ CFPPAGTILPNNY\PC*VTGLGE SCRTNG\AVPDVL\QQGRLLAV DYATCS\SSA\WWGSSVKTSMIC A\GGDGVISSCNGDSGGPLNCQ A\SDALWQVHGIVSFGSRLGCN YYHKPSVFTRVSNYIDWINSVI AYN
20505	50873	A	20622	19	414	SVCWEDRYLKARMEESPLSRA PSRGGVNFLNVARTYIPNTKVE CHYTLPPGTMPASDWIGIFKP/ GYLPKPGAQLYQFRYVNRQQQ VCGQSPPFQFREPRPMDELVTL EEADGGSDILLVVPKATVQLNQ
20506	50874	A	20623	1	393	AKSWQEEQSAQAQRLKDKVA QMKDTLGGAAQQRVVSEAPWQ QETGNSKGKL*RSLRV*REGER HG*RLNNTTSPNAVEWRER/IT SLADE*FTRNCDLHLLSPEAEL EPLKEQLRGAQELAASSQQKAT LY
20507	50875	A	20624	56	416	NRPLLALVASDTQPLHTHTHTH TPLSDAPKPIGA/HLP/CSYLEF PLTSVPHPSLFHNLRYSVWRGF LYF*GFLYSVSSPRISSHGKK*CI CAFCEEWGEQVVPGIPISKAPLP LQVPPQQ
20508	50876	A	20625	115	392	
20509	50877	B	20626	1	3388	

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20510	50878	A	20627	3	1889	SSPREKTS DSSHRPSRHGFLFLR LVGLSPFSYLCVPPSRPVPGSPR SLSAMRLLPLAPGRLRRGSPRH LPSCSPALLLLVLGGCLGVFGV AAGTRRPNVLLLLTDDQDEVL GGMTPLKKTKALIGEMGMTFS SAYVPSALCCPSRASILTGKYPH NHHVVNNTLEGNCSSKSWAQKI QEPNTFPAILRSMCGYQTFFCR GNI*MKYGAPDAGG\LG\HVPL GLGVTWYALEKNS\KYYNYTL FYSMGKARKHGENY\SVDYLT DVLANVSLDF\LDYKSNF*PFF MMIATPAPHSPWTAAPQYQKA FQNVFAPRNKNFNHGTNKH LIRQAKTPMTNSSIQFLDNAFR KRWQTLLSVDDLVEKLVKRLE FTGELNNTYIFYTSDNGYHTGQ FSLPIDKRQLYEFDIKVPLLVRG PGIKPNQTSKMLVANIDLGPILR DIAGYDLNKTQMDGMSLLPILR GASNLTWRSDVLVEYQGEGRN VTDPTCPSLSPGVSCFPDCVCE DAYNNTYACVRTMSALWNLQ YCEFDDQEVFVEVYNLTADPD QITNIAKTFDPAELLGKMNYRL MMLQSCSGPTCRTPGVFDPGY RFDPRLMFASNRGSVRTRRFSQT SSCSDPHTASADGSLHALFLMK
20511	50879	A	20628	132	253	
20512	50880	A	20629	1	1269	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20513	50881	A	20630	1	1920	MDEAEFSSFVVRTNTCGELRSS HLGQEVTLCGWIQYRRQNTFL VLRDFDGLVQVIIPQDEVLENFL LLSKSFFDAIAGSAASVKKILCE APVESVVQVSGTVISRPAGQEN PKMPTGEIEIKVKTAEELNACK KLPFEIKNFVKKTEALRLQYRY LDLRSFQMQYNLRLRSQMVMK MREYLCNLHGFVDIETPTLFKR TPGGAKEFLVPSREPGKFYSLP QSPQQFKQLMVGGLDRYFQV ARCYRDEGSRPDRQPEFTQIDIE MSFVDQTGIQSLIEGLLQYSWP NDKDPVVVPFPTMTFAEV\PPP YGTDKPDTRFGMKIIDISDVFR NTEIGFLQDALSKPHGTVKAICI PEGAKYLKRKDIGSIRNFAADH FNQEILPVFLNANRNWNSPVAN FIMESQRLELIRLMETQEEDVV LLTAGEHNKACSLGKLRGTGN VAGPSRKQEGVVLRDPTLFSFL WVVDPLFPQGRRKIQESWDR GQHPF\TAPHR*ITLLYTEPKK ARSQHYDLVLNGNEIGGGSIRI HNAELQRYILATLLKEDVKMLS HLLQALDYGA\PHGGIALGLD RLICLVGSPSIRDVIAFPKSFRG HDLMSNTPDSVPS*GTEALSYP SLQANRLQSRKSSLNHAYHAES
20514	50882	A	20631	1	425	KEPVGCVNNISFLASLAGSTSR NRLQSTRGAGRLQNSGTGLSTN LQHFQEENFRKSSPQLEHT/WSF FGECTTHLPPVKAPLQTKKKT TNHCFLCGKKTGLASSYECRQ VGELEKLRCFLCDNPAWGLCKI KYLNCLFITS
20515	50883	A	20632	1	1647	
20516	50884	A	20633	1	3096	
20517	50885	A	20634	1	419	
20518	50886	A	20635	558	1070	SFRFGHSHGLWKRKKVA*GSN AIQHNMLQGKQNFHGAALWY KGNSTQSKRPQRAP*ESSTTKR GLQLSRQTLQLDPGGTVPCSEE YCICQ*EGPASRNRYNGVPSHF PSPTCIRESSHSGKILKSRLRCW GWPTDPWSVLPMDPRTSPLCA AGSQAVVAHSGRQQKYPAL

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20519	50887	A	20636	3887	4573	KKTTLLTLSKTRNINLPFKVVK KKA YGSRKHLRQ/HLAINPAAL LPTAASQISEVKPVLPELAFPS EHRRSHGLESVPVLPGSGEAGV SFDLPAQADTLHSANKSRVKM RGKRRPQTRAARRLAAQESSEA EDMRSPEDPLHSGLMAPFPQM AIGHSSEQPVEKTALRRPWQLP LHLGKVVLCLWQTQAPLQSLW VIPEGRLTFLILGTFPRALDLSP WREQNPRQR
20520	50888	A	20637	1	2988	MATAPSPMMLTLAPAWLCPAT TTPRDHSEASLEALPGDPPAHP AAAATAAAVIPALEPHTPVYA IFVNHSLLDLIDRPLPYLIGSK LFMEQEDVGLGELSSEEGNADE QSSGLEGACKVNLELLLTNAD KGLKAPEQHLKHVAGVLNGES VETSVLNYRELSPHKNRLLSPL RCSAPMSLHNSLVKPERQSKCF EFGKLQPSSSQSLDVQNTDSSF SRTTCFQGVKVDLSLGRSDVIS KVEARDITEMTNKA
20521	50889	A	20638	1	1176	
20522	50890	A	20639	2	367	
20523	50891	A	20640	124	441	RYPRVPENRCFSELLFFQAPLG VGMARGNQRELARQKNLKET QEISRGKGKEDSLTALSRLKQRD S*IIAKKQKAANEKKSMTRE NVMTGYLENPGATAQLGVS
20524	50892	A	20641	32	232	
20525	50893	A	20642	1	256	
20526	50894	C	20643	133	509	
20527	50895	A	20644	88	685	QKRGRLFKIILKVVLVLMKVIVI HRKMFQRAQELRWAEADYHK CKAFSDHPLCKKASLQLGQNG GSGASSFFRIALLALPHS*NFKK QDGPPATSSNSTTFYN*LPEPQ DTSRMSSYSLSLSSSTLRG**S QDSSLSYSGGRGRKITETQEAE VE*AENRSLHSSLGNKKKSVSG TKEKNQKTKQNPFSKNKLTKN
20528	50896	A	20645	42	946	
20529	50897	C	20646	1	453	
20530	50898	C	20647	771	1223	
20531	50899	C	20648	324	659	
20532	50900	C	20649	427	654	
20533	50901	B	20650	343	1774	
20534	50902	B	20651	23	525	
20535	50903	B	20652	2354	5689	
20536	50904	B	20653	448	3506	

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20537	50905	B	20654	12	182	
20538	50906	C	20655	210	422	
20539	50907	C	20656	145	357	
20540	50908	B	20657	1	327	
20541	50909	B	20658	1	2595	
20542	50910	B	20659	122	472	
20543	50911	B	20660	163	418	
20544	50912	C	20661	86	517	
20545	50913	B	20662	334	2946	
20546	50914	B	20663	11	700	
20547	50915	B	20664	184	2372	
20548	50916	C	20665	267	467	
20549	50917	B	20666	131	268	
20550	50918	B	20667	18	255	
20551	50919	B	20668	100	356	
20552	50920	B	20669	120	839	
20553	50921	B	20670	355	504	
20554	50922	B	20671	1	1524	
20555	50923	B	20672	175	366	
20556	50924	B	20673	436	792	
20557	50925	B	20674	94	1347	
20558	50926	B	20675	865	1189	
20559	50927	B	20676	241	423	
20560	50928	B	20677	124	352	
20561	50929	B	20678	1	847	
20562	50930	B	20679	262	4624	
20563	50931	C	20680	76	297	
20564	50932	B	20681	1	702	
20565	50933	B	20682	1	1347	
20566	50934	B	20683	78	2874	
20567	50935	B	20684	133	7317	
20568	50936	B	20685	294	1449	
20569	50937	C	20686	139	367	
20570	50938	C	20688	154	445	
20571	50939	B	20689	1	1086	
20572	50940	B	20690	111	440	
20573	50941	B	20691	303	462	
20574	50942	B	20692	1	2905	
20575	50943	C	20693	349	453	
20576	50944	C	20694	233	376	
20577	50945	B	20695	1	2016	
20578	50946	B	20696	1464	3022	
20579	50947	B	20697	1	1059	
20580	50948	B	20698	1	933	
20581	50949	B	20699	1	930	
20582	50950	C	20700	129	215	
20583	50951	C	20701	283	408	
20584	50952	B	20702	1	1134	
20585	50953	B	20703	1	525	
20586	50954	B	20704	146	556	
20587	50955	B	20705	1	675	

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20588	50956	B	20706	1	1107	
20589	50957	B	20707	1	774	
20590	50958	C	20708	52	156	
20591	50959	C	20709	1	420	
20592	50960	B	20710	1	1347	
20593	50961	C	20711	1	411	
20594	50962	B	20712	169	248	
20595	50963	B	20713	63	1321	
20596	50964	B	20714	1	359	
20597	50965	C	20715	1195	1674	
20598	50966	B	20716	964	1290	
20599	50967	B	20717	51	389	
20600	50968	B	20718	108	232	
20601	50969	B	20719	425	3545	
20602	50970	C	20720	35	226	
20603	50971	B	20721	1	387	
20604	50972	B	20722	1	1926	
20605	50973	B	20723	523	1242	
20606	50974	B	20724	42	2346	
20607	50975	B	20725	63	287	
20608	50976	B	20726	59	200	
20609	50977	B	20727	1	1176	
20610	50978	B	20728	1	769	
20611	50979	B	20729	1	2009	
20612	50980	B	20730	219	3045	
20613	50981	B	20731	195	1739	
20614	50982	C	20732	126	435	
20615	50983	B	20733	2752	4108	
20616	50984	B	20734	1	1104	
20617	50985	B	20735	24	230	
20618	50986	B	20736	1	1292	
20619	50987	B	20737	1	7977	
20620	50988	B	20738	157	2627	
20621	50989	C	20739	165	533	
20622	50990	B	20740	35	87	
20623	50991	C	20741	68	202	
20624	50992	B	20742	83	2670	
20625	50993	B	20743	162	276	
20626	50994	B	20744	104	245	
20627	50995	B	20745	66	2768	
20628	50996	B	20746	14	3115	
20629	50997	C	20747	69	203	
20630	50998	B	20748	1	2152	
20631	50999	C	20749	114	387	
20632	51000	C	20750	56	250	
20633	51001	B	20751	53	3398	
20634	51002	B	20752	642	2386	
20635	51003	B	20753	1	1242	
20636	51004	B	20754	51	601	
20637	51005	B	20755	192	463	
20638	51006	B	20756	125	1254	



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20639	51007	C	20757	208	333	
20640	51008	B	20758	155	4443	
20641	51009	B	20759	1	2529	
20642	51010	B	20760	63	321	
20643	51011	B	20761	226	645	
20644	51012	B	20762	1	1395	
20645	51013	B	20763	258	475	
20646	51014	C	20764	126	263	
20647	51015	B	20765	1	1429	
20648	51016	B	20766	51	3256	
20649	51017	C	20767	83	403	
20650	51018	B	20768	1	621	
20651	51019	B	20769	1	463	
20652	51020	B	20770	1002	3594	
20653	51021	C	20771	107	403	
20654	51022	B	20772	51	401	
20655	51023	C	20773	46	398	
20656	51024	B	20774	1	513	
20657	51025	B	20775	1	531	
20658	51026	C	20776	1	423	
20659	51027	B	20777	52	670	
20660	51028	C	20778	43	375	
20661	51029	B	20779	1	1629	
20662	51030	B	20780	1	1713	
20663	51031	B	20781	1	5154	
20664	51032	B	20782	37	585	
20665	51033	B	20783	1	3789	
20666	51034	C	20784	149	367	
20667	51035	C	20785	89	234	
20668	51036	B	20786	113	278	
20669	51037	B	20787	1	1632	
20670	51038	B	20788	1	762	
20671	51039	B	20789	230	3411	
20672	51040	B	20790	95	1150	
20673	51041	B	20791	1	1230	
20674	51042	B	20792	74	3123	
20675	51043	B	20793	1	1719	
20676	51044	C	20794	206	402	
20677	51045	B	20795	302	424	
20678	51046	B	20796	60	80	
20679	51047	B	20797	1	1248	
20680	51048	B	20798	8	1910	
20681	51049	B	20799	124	807	
20682	51050	B	20800	43	618	
20683	51051	B	20801	7	328	
20684	51052	B	20802	244	385	
20685	51053	B	20803	850	970	
20686	51054	C	20804	97	360	
20687	51055	B	20805	551	3159	
20688	51056	B	20806	861	1110	
20689	51057	B	20807	1	876	

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20690	51058	B	20808	1	849	
20691	51059	B	20809	1	1443	
20692	51060	B	20810	508	2398	
20693	51061	B	20811	53	185	
20694	51062	B	20812	50	633	
20695	51063	B	20813	1	444	
20696	51064	B	20814	58	262	
20697	51065	B	20815	27	1005	
20698	51066	B	20816	1	4860	
20699	51067	B	20817	1	3489	
20700	51068	C	20818	52	363	
20701	51069	C	20819	347	499	
20702	51070	B	20820	1	4140	
20703	51071	B	20821	85	3930	
20704	51072	B	20822	848	3116	
20705	51073	B	20823	41	1211	
20706	51074	B	20824	248	4307	
20707	51075	B	20825	67	3180	
20708	51076	C	20826	229	467	
20709	51077	B	20827	71	1827	
20710	51078	B	20828	1	1045	
20711	51079	B	20829	1279	1479	
20712	51080	B	20830	1	2460	
20713	51081	B	20831	62	3691	
20714	51082	B	20832	1	1062	
20715	51083	B	20833	1	873	
20716	51084	B	20834	1	1041	
20717	51085	B	20835	161	5445	
20718	51086	B	20836	199	343	
20719	51087	C	20837	86	229	
20720	51088	C	20838	1	225	
20721	51089	C	20839	34	165	
20722	51090	C	20840	238	455	
20723	51091	C	20841	200	322	
20724	51092	B	20842	59	164	
20725	51093	C	20843	1353	1793	
20726	51094	B	20844	1	1329	
20727	51095	C	20845	43	324	
20728	51096	C	20846	223	435	
20729	51097	C	20847	212	307	
20730	51098	C	20848	386	529	
20731	51099	B	20849	300	995	
20732	51100	B	20850	876	3312	
20733	51101	B	20851	153	306	
20734	51102	B	20852	39	3131	
20735	51103	B	20853	29	136	
20736	51104	B	20854	112	333	
20737	51105	B	20855	31	474	
20738	51106	B	20856	26	1716	
20739	51107	B	20857	27	1234	
20740	51108	B	20858	1	6390	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20741	51109	B	20859	1	1014	
20742	51110	B	20860	128	837	
20743	51111	B	20861	1	931	
20744	51112	B	20862	357	4629	
20745	51113	B	20863	1	1017	
20746	51114	B	20864	1	1908	
20747	51115	B	20865	224	9448	
20748	51116	B	20866	1	1209	
20749	51117	B	20867	138	359	
20750	51118	B	20868	1	1567	
20751	51119	B	20869	226	9033	
20752	51120	B	20870	20	2689	
20753	51121	B	20871	1602	2647	
20754	51122	C	20872	72	452	
20755	51123	C	20873	64	423	
20756	51124	B	20874	33	363	
20757	51125	B	20875	131	1675	
20758	51126	B	20876	37	219	
20759	51127	B	20877	1	564	
20760	51128	B	20879	1	651	
20761	51129	B	20880	44	424	
20762	51130	B	20881	28	202	
20763	51131	B	20882	1	3403	
20764	51132	B	20883	110	970	
20765	51133	B	20884	70	485	
20766	51134	B	20885	482	2943	
20767	51135	B	20886	469	1480	
20768	51136	B	20887	156	308	
20769	51137	C	20888	218	348	
20770	51138	B	20889	1	5130	
20771	51139	B	20890	21	1139	
20772	51140	B	20891	1	1302	
20773	51141	B	20892	1	1028	
20774	51142	B	20893	1	858	
20775	51143	B	20894	1	2001	
20776	51144	B	20895	1	546	
20777	51145	B	20896	1	1167	
20778	51146	B	20897	1	1299	
20779	51147	B	20898	1	1260	
20780	51148	B	20899	1	771	
20781	51149	C	20900	155	337	
20782	51150	B	20901	1	1251	
20783	51151	B	20902	106	543	
20784	51152	B	20903	57	2279	
20785	51153	B	20904	905	1120	
20786	51154	B	20905	145	2277	
20787	51155	B	20906	1	1384	
20788	51156	B	20907	1	4775	
20789	51157	C	20908	99	251	
20790	51158	B	20909	1	693	
20791	51159	B	20910	77	2173	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20792	51160	B	20911	140	313	
20793	51161	B	20912	1	392	
20794	51162	C	20913	1	222	
20795	51163	B	20914	1	951	
20796	51164	B	20915	45	1244	
20797	51165	B	20916	166	2544	
20798	51166	C	20917	279	449	
20799	51167	B	20918	1	1250	
20800	51168	B	20919	229	2094	
20801	51169	B	20920	94	434	
20802	51170	C	20921	253	336	
20803	51171	B	20922	1	1314	
20804	51172	B	20923	6	327	
20805	51173	B	20924	163	3060	
20806	51174	B	20925	20	385	
20807	51175	B	20926	22	58	
20808	51176	C	20927	141	287	
20809	51177	B	20928	37	1063	
20810	51178	C	20929	261	401	
20811	51179	B	20930	66	3148	
20812	51180	B	20931	223	4149	
20813	51181	C	20932	21	278	
20814	51182	B	20933	158	1283	
20815	51183	B	20934	8	896	
20816	51184	B	20935	240	387	
20817	51185	C	20936	312	512	
20818	51186	B	20937	451	611	
20819	51187	C	20938	160	428	
20820	51188	B	20939	110	294	
20821	51189	B	20940	121	1764	
20822	51190	B	20941	1	423	
20823	51191	C	20942	74	316	
20824	51192	C	20943	136	255	
20825	51193	C	20944	79	381	
20826	51194	B	20945	282	1180	
20827	51195	B	20946	63	371	
20828	51196	C	20947	193	672	
20829	51197	B	20948	85	898	
20830	51198	B	20949	35	1055	
20831	51199	B	20950	1	870	
20832	51200	B	20951	103	1189	
20833	51201	B	20952	501	594	
20834	51202	B	20953	39	1694	
20835	51203	B	20954	489	4797	
20836	51204	C	20955	31	153	
20837	51205	B	20956	259	699	
20838	51206	B	20957	4	231	
20839	51207	B	20958	50	520	
20840	51208	C	20959	322	456	
20841	51209	B	20960	163	1152	
20842	51210	B	20961	33	745	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20843	51211	B	20962	210	3519	
20844	51212	C	20963	34	294	
20845	51213	C	20964	301	381	
20846	51214	B	20965	71	675	
20847	51215	B	20966	1	873	
20848	51216	B	20967	118	1618	
20849	51217	B	20968	424	2415	
20850	51218	C	20969	106	231	
20851	51219	B	20970	71	756	
20852	51220	B	20971	1	1049	
20853	51221	C	20972	94	327	
20854	51222	B	20973	339	2589	
20855	51223	B	20974	89	273	
20856	51224	B	20975	1	2514	
20857	51225	B	20976	472	5831	
20858	51226	C	20977	247	300	
20859	51227	B	20978	1	2487	
20860	51228	B	20979	55	243	
20861	51229	C	20980	207	377	
20862	51230	B	20981	642	4117	
20863	51231	B	20982	44	2127	
20864	51232	B	20983	48	1127	
20865	51233	B	20984	1	3411	
20866	51234	B	20985	74	469	
20867	51235	B	20986	39	1251	
20868	51236	B	20987	223	378	

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20869	51237	A	20988	1	2577	MPPNRHRMRGETTLWNP GCDH AGIATQVVVEKKLWREQGLSR HQLGREAFLEQVWKWKEEKG DRIYHQLK\KLGSSLDWD RACF TMDPKLSAAVTEAFVGLHEKG IIYRSTAFVNW PCTLNSAISDIE VDKKELTGR TLLSVPGYKEKV EFGVLVSFA YK\VQGS D*/DDE E V V V A N K L G S K T \ M L G D V A V A V P P P K D T R \ Y Q H L \ K G K N V I H P F L S R S L S P L S S D E F V D M D F \ G T G A V K D H P P R H D Q N D Y E V G Q R H G L E A I S I M D S R G A \ P I K C A S A F P G P A A G L R P G K R C W W R * R N R G L F R G I E D N P M V V P L C N R S K D V V E P L L R P Q W Y V R C G E M A Q A A S A A V T R G D L R I L P E A H Q R T W H A W M D N I R E W C I S R Q L W W G H R I P A Y F V T V S D P A V P P G E S E D L S V F Y P G T L L E T G H D I L F F W V A R M V M L G L K L T G R L P F R E V Y L P C P S C E N A H G R K \ M S K S L G N V I D P L D V H L \ Y G I S L Q G L H N Q L L N S N L D P S E V E K A K E G Q K A D F P A G V P E C G T D A L R F G L C A Y M S Q G S * K * T W N V N R I M G * R Q F C N K L W K C T K F A L R G L G K G F V P S \ D T S N S A G H E S L A D R * I R N L L T E A V R L S N Q G F Q A Y D F P A V T T A Q Y S F W L Y E L C D V Y L E C L K P V L N G V D Q V / A Q A E C A R Q T L Y T L P W T L G L R L L S P F M P F V T E E L F Q R L P R R M P Q A P P S L C V T
20870	51238	A	20989	2	4083	SQ R G E H V G A G C R G G D L R E L G S P G E P P T V S A R S T P P P G P L G G S Q P R P A P G C E V D S P A Q S D H L P P V F P L R S D L L I T M S T L Y V S P H P D A F P S L R A L I A A R Y G E A G E G P G W G G A H P R I C L Q P P T S R T S F P P P R L P A L E Q G P G G L W W G A T A V A Q L L W P A G L G G P G G S R A A V L V Q Q W V S Y A D T E L I P A A C G A T L P A L G L R S S A Q D P Q A V L G A L G R A L S P L E E W L R L H T Y L A G E A P T L A D L A A V T A L L L P F R Y V L D P P A R

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20871	51239	A	20990	1	756	MDMGAIKEGESRRPGDRMTVA GTKLLHLQSTHLD FISLSGAPSG ALELSKAQPAHAQDTRVLMKM VIIWDL SQVPLQPGHDGHSFRIH DYL YFQVLSPGDIRYIFTATPAK DFGGIFHTRYEQIHLVPAEPPEA CGELSN GFFIQDQIALVERGGCS FLSKTRVVQEHGGRGGDHL*Q RS*QMTASTW/QMIQDSTQRTA DIPALFLLGRDGYMIRRSLEQH GLPWAII SIPVNVHQHSPPLSCC NRPFLFW
20872	51240	A	20991	2	393	
20873	51241	A	20992	1066	1824	
20874	51242	A	20993	3	902	
20875	51243	A	20994	1	2163	
20876	51244	A	20995	1	1890	
20877	51245	A	20996	1	2882	MKQQLPVSYLQVIFNHWASRIS GARGAGWGPVRLGRLCADRAL DGESRPGGGGQSGVPASEASQ KAAHGRRLPVPARLLRCAHSA LEPGRGSASSPRNSTTSDNDQPP DYSFSKRCDSHSLGFSLVWESR NLTLPTSKLLHFSAFHFFIYKC RAEGHKLYKDLKNFLSAVKVM HESSKRVSETLQFIYYSEWYGH EELKAIVWNNDLLWEDYEEKL ADQAVRTMEIYVAQFSEIKERI AKRGRKLVLDYDSARH

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20878	51246	A	20997	1	1791	MPGARTSSSGASENHRARGQG GGPQGVGRMAEGKAGGAAGL FAKQVQKKFSRAQEKVLQKLG KAVETKDERFEQSANNFYQQQ AEGHKLYKDLKNFLSAVKVMH ESSKRVSETLQEIYSSEWDGHE ELKAIVWNNDLLWEDYEEKL\ ADQAVRTMEIYVAQFSEIKE\RI AKRGRKLV DYDSARHHLEAVQ NAKKKDEAKTAKAEFEFNKAQ TVFEDLNQELLEELPILYNSRIG CYVTIFQNISNLRDVFYREMSK LNHNLYEVMKLEKQHSNKVF VVKGLSSSSRRSLVISPPVRTAT VSSPLTSPTSPSTLSLKSESESVS ATEDLAPDAAQGEDNSEIKELL EEEEIEKEGSEASSSEDEPLPA CNGPAQAQSPPTTERAK\SQEE VLPSTTPSPGGALSPGQLSSS ATEVVLRTRTASEGSEIRPKKT ASIQRTSAPRRPPPPRATASPRP CSGNIPSSPTASGGGSA\TSPRAS LGTGTASPRTSLEI\*PNPE\PEK PVRTPEAKENENIHNQNPEELC TSPTLMTSQVASEPGEAKKME DKEKDNKLISADSSEGQDQLQV SMVPENNNLTAPEPQEEVSTSE
20879	51247	A	20998	3	273	RRPRQRPTDQTQWFSILPDFSLD LQEGPSVESQTHSDPHIPPVDP TTHLTFNHLSIVCVSLTSLPHL GSPCLWSPALVSQEAASHQDRR
20880	51248	A	20999	309	1310	RHQRAPEQGPDA SWKMLDSLL ALGG\LVLLARDSVE\WEG\RSLL K\ALVKKSALCGE\QVHILGCE\ VSEKEFREGFDS**STIRLVYHD F\FRDP\LNWSKTEEGL\VPGGPL GALRS\MCKR\TDPVPVTIALDS LS\WLLRLHCT\TLCQALHAV EPSRTLVLGDSSSVGK\SVLGL LHERLPRPAPVVALSSLAQTKV TLGGYHGARPSAHIL\CRRPRQ\ RPNYQTQWFSILPDFSLGSPRG ALCRVPALIPHITPGGIPHNSF *PFNLHL\SKKEREARDSLILPFQ FSSEKQQA\LLRPRPGQATSHIF YEPDAYDDLDQEDPDDDLNILP



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20881	51249	A	21000	418	1304	GLVMEIGMHHHEHHHLQAPNK EDILKISEDERMELSKSFRVYCH LVKPKDVSLWAAVKETWTKH CDKAEFFSSENVKVFESINMDT NDMWLMMRKAYKYAFDKYR DQYNWFFLARPTTFIENLKY FLLKKDPSQPFYLGHTIKSGDLE YVGMEGGIVLSVESMKRLNSL LNIPEKCPEQGGMIWKISEDKQ LAVCLKYAGVFAENAEDADGK DVFNSQICWAFY*R/WQ*LITPN QVVEGCCSDMAVTFNGLTPNQ MHVMMYG VYRLRAFGPYFSM MHWFSYLQMVLTMTTEKW
20882	51250	A	21001	1	1092	
20883	51251	A	21002	130	397	EGVHSQVNLFPKGNQTHVPAS HGTDSALPPTLQMDYRALVHE PD*AAYGELRAMVLDLRAFYA ELYHISSNLEKIVNPKGEEKPF
20884	51252	A	21003	11	805	SSMAKPC\GVRLSGKGRKQVEV FYRNLFQEAEEFLLR\FLPPESHI P*NRLQEDFPFNVA*/LLNLSS GAPLDIPSPDP\PP\KDDEMETD K\QEKKEVPKCDFLP\GNEKCPC PCLPLVKPRSLDLSKEKC\ILV\ TWGSRHLDPPRFEDGK*FWG* AIPGEGAWRG*NA\VKDPKWE AFPATPISQVLSSERGDACGPRP POETHVMDYRALVHERDEAA YGELRAMVLDLRAFYAELYHII SSNL\EKIVTPRGEEKPIYVLEP
20885	51253	A	21004	352	670	AKRSRIHVG VVIVDSGAE LGR DAAALSEKPPSLTIGLHMELVG MGGEPA LTATPANCPEYPAKPS SI/EQQ*QSQVQ**Q*QVRHGSG PLHRTPRQLFLCSRQFAL
20886	51254	A	21005	3	222	SPEESPPACPRQVFPLYHLQRG QGKRVQVG*GGSLWITTKTRLL PGGVGDNEVAPGSWHLALVFR LLSSGRP

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20887	51255	A	21006	1	3639	MSEETLQSKLAAAKKKIQDILN VLVSDLNRSNGVVLPTLDKWK DAPEAWDLCLALRSICGLAIQL LGAAPLTRAANFSVAEVT DVR DSARRWETRKAPYLSCRIALRM NEAAVFRHLVPGVYFPRCDQG CQLTAALGCGAGVQSHVGPVT VTTGPDSVTAADAAGLCRVLR AVGWGGSECRLTPHPYKFHVE PYGGRLVPPRLSVDPGSSRREA TSKVAVDLLVLDAAAGADGPVS QSPVWKEAAGVVSQLRGGRQ
20888	51256	A	21011	137	944	KPRCCHSATMFEVPLVQGSILK KVLEALKDLINACWDISSGV NLQSMDS/SHVSLQFTLPSEGF DTYRDCNLMAGVNLTIMSKIL KCAGNEDIVTLRIEDNVNTLV VFEASNQEKVSDYEIKLMDLD VEQLGIAEQEYHYVVKMLSGE FASIC*DLSHIGDAVVISGVKDG IIFSASGDLGMKNKLSQTSTVD KEEEAVTMEMNEPVQLTFALR YLNFLTATPLSSMVTLNMSA DIHLVVDYKIADVGHLYYLA PKMEDEEGP
20889	51257	B	21012	205	1309	
20890	51258	A	21013	189	410	
20891	51259	A	21014	1767	2158	RAQPHLYPEAARTGRK*LHFC APSSAPRAPVSERR/CAGRFLSW CPVAAWDPARWARRARRRRR AAARRRRPPRWRRRCLSARGR RRSLNSSKTKNTKCLNSINQRL KILSLQKDLMCGTAGRCKLTE Q
20892	51260	A	21015	1	1710	
20893	51261	A	21016	132	522	
20894	51262	A	21017	1	1386	
20895	51263	A	21018	331	3101	SFSEANISTAKKTFLYNELVY NTRKDTWTKVDIPSPPPRCAH QAVVVPQGGGQLWVFGGEFAS PNGEQFYHYKDLWVLHLATKT WEQVKSTGGPSGRSGHRMVA WKRQLILFGGFHESTRDYIYIN DVYAFNLDFTWSKLSPSGTVP TPRSGCQMSVTPQGGIVVYGG YSKQMPPHSGQSRGRKPGSCLL LLLLLLLLLLLLLVCVPLGYSL IELSSSYRLHGNEPVPA TFHGLN SHMGLVATILDNVNP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20896	51264	A	21019	2	2911	VRGPRARCRRSSKTEPRKGPS RTSTRKRLELGAGSDSISVRRAP PHEHLFPSGERGPFSFLVSRRL GPGKMGKKKGKKEKKGRGAEK TAAKMEKKVSKRSRKEEPGVC RRIRPDLGVECSAAAAHGFPNR GQFYGLPCARHSSLGFTPHEQE DLEALIAHFQTLDAKRTQTVEV PCPPSPRKCRGSQFVVTEDSVR KGTALRLNASLSVHPEKDELIL FGGEYFNGQKTFLYNELYVYNI RKDTWTKVDIPSP
20897	51265	A	21020	1	208	DGYRHEMLPASLIQAQRDYFG AH/TYELWAKPGQFIH/TNWTG HGGTVSSSSYNALFSVQFFK SVVRDS
20898	51266	A	21021	3	316	
20899	51267	A	21022	2	578	LIGLAVMGQNILINMNDHGFV\ TVSKVDDFLANEAKGTKVVGA QSLKEMVSKLKKPRRIILLVKA GQAVDDFIEKLRRCRDLKAKGI LFVSGVSGGEEGARYGPSLMP GGNKEAWPHIKTIFQGIAAKVG TGEPCCDWVGDEGAGHFVKM VHNGIEYGDMQLICEAYHLMK DVLGMAQDEMALCPIFCSVF

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20900	51268	A	21023	3	1758	AYANLGTRFWREPLRVFPSLVL RASPLFGSALSAAMAQADIALI VLFVMGHNILNLMKDHGFEVC AFNRTVSKVDDFLANEAKGTK VVGAQSLKEMVSKLNKPPRDQ YLLC/VKAGQAVDDFIEKLVPL LDTGDIINDGGNSEY*GTPQDG CRDLKAKGILFEGS\GVSAGEE GD\RYGP\SLMPGGNK\EA WPHI KTIFQGIA\AKVGTGEPCC\DWV GDEGAGHEVKM\HNGIEYGD MQLICEAYHLMKDVLGMAQD EMAQAFEDWNKTELD SFLIEIT ANILKFQD TDGKHLLPKIQGTS AGARRGNRSGT/WPFSGPGKY GVPV\TLNGEAVFARCLSSL\KD ERI\QASKKLKGPQK\FQFDGD* EIISWEDIRKALYASKIISYAQGF MLLRHAA\TEFGWTLNYG\GIA LMWRGGCIIRSVFLGKIKDAFD RNP\ELQNLLLD\DFFKVQLFEN CQ\DSWR\RAVSTGVQGWAFP MPLFYRLPLSI*TGTSHEMLPAQ PSSRLQRGLLSGAHTL*NSWAK PGAVLFHTNWTG\HGDTVSSSS YQCLDHAAPVTLHDSTVPGHSI GLNGTAHLALCPIFC SVFFKSV
20901	51269	A	21024	317	885	MRWRKSASWRAEPKSR TNSGT ASNVSPSRPLEC*R/FLRLVSGE LILALIAFICIETIMACSPCEGLY FFEFVSCSAFVVTGVLLIMFSLN LHMRI PQINWNLTDLVNTGLSA FLFFIASIVLAALNHRAGAEIAA VIFGFLATAAYA VNTFLAVQK WRVSVRQQSTNDYIRARTESRD VDSRPEIQRLDT
20902	51270	A	21025	4761	5127	LGSGDLPWEINPLSSCSLLREKD PPTTSGPQT\TSRNPISINPHTR TSKRLNRSGQAF LQNLLPQELA TSARNLTTRPRNACSPGFLLSR VPSVRDPTGNWTVQLTWQPLS EPLELWPKAL

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20903	51271	A	21026	174	2238	LRSGDLPWEINPLSSCSLLHEKD PPTTSGPQT\TSPRNISPISNPRQR RHILSMDPKLRRRSWTWVGS LP LVFNHCRDASLIHPGFRGVRPR RDVCLGPSPLATITDAELYVTL TVEGKSIPFLIDTEATHSTLPSFK GPVALASIHVQNVQIKRDKEGH YIMVKGSIQQEELTILNMYAPN TGAPRFIKQVLNDLQRLDSHT HMGDFNTPLSTLDRSTRQKVN KDIQDLNSALHQADLIDIYRTL HTKSTECTFFSAPHRTYSKIDHI VGSKALLSKCKRTEIINCLSDH SAIKLELRICKLTQNHSTTWKL NNLLNDYWVHKEMKAEIKM FFEINENKNTTYQNLWDTFKAV CRGKFIALNAYKRRQERSKIDT LTSQLEEEKQEOTRSKASRE EITKIRAELEKETQKTLQKINES RSWFFEKINKIDILLARLIKKR EKNQIDAIAKNDKGDIATDPTEIQ TTIREYYKHLC PNKLENLEEMD KFLDTYTLPRLNQEEDESLNRPI TGSEIVAIINSLPTKKSPGPDGFT AKFYQRYKEELVPFLQKYKEEL VPFLKLFQSIEKEGILPNSFSEA SIILIPKGRD\TTKKENFRPISLM NIDAKILNKILANQIQQHIKKLI HHDQVGFIPGMQGWFNIRKSIN VIQHINRTKDKNHMIIISIDAEKA FDKIQQPSC
20904	51272	A	21027	1	181	MEEKEERKRRRKRKRREEGR DGERKRMEKQKENQDPKDPPT TSGPQT\TSPRNISPISNP
20905	51273	A	21028	167	408	LGSRTFPWEINPPSSCSLLREKD PPTTSGPQT\TRPRNISPISNLVS GLFLLSSPTSLTIPQLSSFNLDD TLQSLPSLNF
20906	51274	A	21029	449	663	LGSGDLPWEINTQSSCSLLCEK DPPTTSGPQT\TSPRNISPISNPDP TGNRTVQLTWQVPPELELWP KAL
20907	51275	A	21030	79	381	LGSGDLPWEINPLSSCSLLREKE PPTTSGPQT\TRPRNISPISNPELA TLAGNLATGPRNARSPGFLLSH VLSVWDPTENQTVQLTWQPLP QPLELWPKAL
20908	51276	A	21031	122	334	LRSGDLLWEINPLSS*SLLHEKD PPTTSSPQT\TSPRNISPISNPDP ENQTVQLTWQPLPELELWPK AL

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20909	51277	A	21032	109	320	LGSGDLP*EINPPSSCSLLREKD PPTTSGPQT\TSPRNISPISNPDP GNRTVQLTWQPLQPPELWPK AL
20910	51278	A	21033	620	717	
20911	51279	A	21034	3	678	GGGFSRDRRTIALQPGQQIWM WGIGKQVGGCGWLRGKNRVV GAAKDQSGTGEKFYFIPKAMG AMEGSGQRRTLPDGAHRNPS GGYSATDCEGSRPAPGEINSHA SHTKPVWWFFTQTRMKFGAVT RIGGLPWEVNPLSSCSLLRE/KD PPTTSGPQSNQPRKHPPISNP ELVHVPEIWPLGQGMPAARIPPK RPICVGPH*KSTVQLTWQPLPEP LELWPRLSD
20912	51280	A	21035	339	1098	LGSGDLPWEINPLSSCSLLREKD PPTTSGPPTTSPRNISPISNPGET KETRFIRGPKTPAPVTDWEGSL PLVFNHCRDASLIHPRFKGVRP RRDACLGPSPLAASPTFLGKGQ RLKTDARLPRKPPRPSRTLSFS TAPRILSIVVPGSGHTLAFLDVT RHRLYRESKPVVGEEVDYSEW LSDVGKSEWSFSTCASSTSVNK HDTGRRLLGKRGGMESKGL CNFITMTKNIRSLAQMTIWQYL SPCREPV
20913	51281	C	21036	1	438	
20914	51282	A	21037	174	483	LRSGDLPWEINPLSSCSLLHEKD PPTTSGPQT\TSPRNISPISNPQR RHILSMDPKLRRRSWTWVGSPL LVFNHCRDASLIHPGFRGVRPR RDVCLGPSPLA
20915	51283	A	21038	590	824	PNSSWMRGEPKKDPPTTSGPQT \TSPRNISPISNPGR LSDYSPRFQ RCQTTQGRLPWSFTLSGKSRFS GEGATWGLKT
20916	51284	B	21039	1	1596	
20917	51285	B	21040	155	2206	
20918	51286	B	21041	1	831	
20919	51287	B	21042	75	474	
20920	51288	B	21043	38	1009	
20921	51289	C	21044	335	481	
20922	51290	B	21045	66	652	
20923	51291	B	21046	1	673	
20924	51292	B	21047	1	451	
20925	51293	B	21048	74	3516	
20926	51294	B	21049	783	3463	
20927	51295	B	21050	1	807	
20928	51296	B	21051	41	1700	

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20929	51297	C	21052	18	381	
20930	51298	B	21053	1	3147	
20931	51299	B	21054	1	2586	
20932	51300	C	21055	756	1403	
20933	51301	B	21056	42	205	
20934	51302	B	21057	40	420	
20935	51303	B	21058	303	1170	
20936	51304	B	21059	1	2631	
20937	51305	B	21060	19	3093	
20938	51306	B	21061	23	241	
20939	51307	B	21062	84	1775	
20940	51308	B	21063	68	1542	
20941	51309	B	21064	74	2566	
20942	51310	C	21065	730	1023	
20943	51311	B	21066	67	1159	
20944	51312	B	21067	294	929	
20945	51313	B	21070	68	336	
20946	51314	B	21071	1	1992	
20947	51315	B	21072	1	4188	
20948	51316	C	21073	44	535	
20949	51317	B	21074	983	2636	
20950	51318	B	21076	289	1693	
20951	51319	B	21077	364	2393	
20952	51320	B	21078	471	590	
20953	51321	B	21079	1	1026	
20954	51322	B	21080	343	4253	
20955	51323	B	21081	1	819	
20956	51324	B	21082	648	894	
20957	51325	B	21083	1	1236	
20958	51326	B	21084	1	822	
20959	51327	B	21085	211	363	
20960	51328	B	21086	193	264	
20961	51329	B	21087	1	1260	
20962	51330	B	21088	143	3158	
20963	51331	B	21089	85	353	
20964	51332	B	21090	221	598	
20965	51333	B	21091	1	4878	
20966	51334	B	21092	171	362	
20967	51335	C	21093	320	408	
20968	51336	B	21094	1	1218	
20969	51337	B	21095	1	1761	
20970	51338	B	21096	315	1224	
20971	51339	B	21097	526	3482	
20972	51340	B	21098	41	4858	
20973	51341	C	21099	38	250	
20974	51342	C	21100	157	225	
20975	51343	C	21101	191	415	
20976	51344	B	21102	42	507	
20977	51345	C	21103	71	367	
20978	51346	C	21104	231	439	
20979	51347	C	21105	207	459	

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20980	51348	A	21106	1	429	
20981	51349	A	21107	184	544	VRLLKILQLQRFKMYVQQLDL TYFLRKIKCTLENGIVMSNTEA ESGVQLKPGRWGASALYSSHHI IH*A*LLVPR*VSNVCSRNDT* TKNKDTKNRRC*PKSSTRRGK* KRERKEKEVT
20982	51350	A	21108	3	1200	LSQKEEEEDTFIEEQQLEEEKLL ERERQRLHEEWLLREQKAQEE FRIKKEKEEAAKKRQEEQERKL KEQWEEQQRKEREIEEEQKRQE KKEKEKTFMWKPSVDLFSHLA SLRTPICQDKGNAYQEHFPEK KKKRSSQLAIPGAFGYPHLL AILGLRCSRKHNFPTSSPTLLIKS MFTTFGMEQCRRDDYDPDASL EYSEEETYYQFLDFYEDVLPF KNVGKVIQF/KGLFEIQQCPRGK HCNHLHVFRNPNNEFWANRDI YLSPDRTGSSFGKNSERRERMG HHDDYYSLRGRRNPSPDHSY KRNGESERKSSRHRGKKSHKRT SKSRERHNSRSRGRNRDRSRDR SRGRGSRSRSRSRSRSRSRSQ SSSRSRSRGRRRSGNRDRTVQS
20983	51351	A	21109	789	907	
20984	51352	A	21110	236	1823	CPIQRQSPGPAQTGRWEPLPCT VPITLRMSEGGGAGKMAALE KMTFPKKMTFPEKPSHKKYRA ALKKEKRKIRRQELARLRDSSL SQKEEEEDTFIEEQQLEEEKLLE RERERLHEEWLLREQKAQEEFR IKKEKEEAAKKRQEEQERKLKE QWEEQQRKEREIEEEQKRQEK EKEEALQKMLDQAENELENGT TWQNPEPPLDFRVMKDGVN CPFYSKTGACRFGDRCSRKHYP PTS\PTLLIKSMFTTLGMEQCR RDDYDPDASLEYSEEETYYQFL DFYEDVLPFKNVGKVIQFKVS CNLEPHLRGNIYVQYQSEEEC QAALSLFNGRWYVAGRQLQC EF*TGDRWKMAICGLFEIQQCP RGKHCNHLHVFRNPNNEFWEA NRDIYLSPDRTGSSFGKNSERRE RMGHDDYYSLRGRRNPSPD HSYKRNGESERKSSRHRGKKSH KRTSKSRERHNSRSRGRNRDRS RDRSRGRGSRSRSRSRSRSRRS RSQSSSRSRSRGRRRSGNRDRT
20985	51353	A	21111	289	366	



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20986	51354	A	21112	1	1289	
20987	51355	A	21113	60	367	EELGYAGRGMGARQPPPPARKA VSPLQERAEPVGSPG*GWRSRP STHGIASHGGPACSLCSLHFTFF VDFPSLFSPICLPEGWDWQQEQ PCLLYLSSPRCTQA
20988	51356	A	21114	1	653	RRRGSAAAGGRAAERKAEVGA MNMAGGKAGKDSGKAKAKA V\RSQRVAGLQFPVGRIHRHLK TRT\TSHGRV\GATAAVY\SAAJ LAEYL\TAEVLEL\AGY\ASKDLQ SKSVSLPRHLQLAIPWVIEELDS LIQGLP*AGGGVIPSHPHKSLIG KEGDSKKTALEGMLLTQPLSLP RHLYCNWDKKNNGDMWNFLP PVKWKSIDNYCRHDKRNICMF LDSEV
20989	51357	A	21115	1	1019	SVCWAGGAPRAHSTRTHAWLG RPAMEPGSVENLSIVYRSRDFL VVNKHWDV\RIDSKAWRETGRP EP\QVASVEESGSDSGLC/HHSR FCHQLDFSTSGALCVALLVLGG LPGSTGLPRELRAILPLLQLRGH IQESRVSIVRWGGPGPRVSPTNL TPAFCAPGCENPKPSLTGSWSG R*VWIGPAPSLIRHRPHPAGRTH QLRV\HCSALGHPVVGDLTYGE VSGREDRPFMRMLHAFYLRIP DTECV\CTPD\FLPSL\DACWS PHTLLQSLDQL\VAGLKGQPPD P*TRG*GGPRPGSPSALLPGHGR PPPPTTKPPETEAQRGPCLQWL SEWTLEPDS
20990	51358	A	21116	698	1472	RWAPRRGLSVDLDGGSSAPLCP PATTARLDAEPHGLPNSCLWE CSCLLQGIWAAGPSGLSLHYPP LSSPLGSSPPSRPQRLVLIRAGR GGWVGSVGETMTSSYGHVLER QPALGGRLDSPGNLDTLQAKK NFSVSHLLDLEEAGDMVAAQA DENVGE\SSRTRGGGAGLGKGL SGVQTQRASAVWESSRLKMLS RVGRASLGQRM\TA*GRLQLYP HAPKSVTDRSPCSSQVTKSWNR GALQHSMIFTKRCLFQTLKE

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20991	51359	A	21117	50	1226	KMAEEVVVVAKFDYVAQQEQ ELDIKKNERLWLLDDSKSWWR VRNSMNKTGFVPSTYVGRIEN SARKASIVKNLKDITLGIGVKR KPSVPDSASPADDSTFVDPGERL Y\DLNMPA\YVKFN\YMAERED ELS\LIKGVTKVIVMEKCS\DGW WRGTYNGQVGWFPSNYVTEE\ GESPLGDHVGSLSEKLAADV NLNTGQVLHVQALYPFSSSN DEELNFEK\GDVMDVIEKPEN PEWVKCRKINGMVGLVPQKL W*PLLQSIQLTSGLTFTFCGF IRPYIPGKFVGNPWYYGKVTRH QAEMALNERGHEGDFLIRDSES SPNDFSLSLKAQGNKHFKVQ LK\ETVYCIWQRKSCTME*LVE HYK\KAPNFYNVNKGEKLYLV
20992	51360	A	21118	132	428	
20993	51361	A	21119	3	337	AKLAGAAVPVCARGRAAPLAA AALPAARL\PSGAGPAGLVSDV RRRPFARE/PEPRVP/SQPPALSA LGALALKLFSSPPSCWSFSVKT GVLVPWIMCISWPYFLSGNLLT MMW
20994	51362	A	21120	438	1066	LNQKGKGGRGEALKNDLVVAP PPSPRRGVR*EALHVPDTGPFK KPRKRK*NQRQREARK*TFPR EEEARRETHGPLAPRPPPLCP/ PAASSAPRPGPKGAR*LSLSAE GRARRRSAGASGGAGAAATAA AAAPEHPRGSEPRQPASPAPQ RERPRRPAPRLPPQCPRPSKGRA WTLQTTTGQKVCTGAGTRRA WRRAGAVRRAFWA
20995	51363	A	21121	1	924	
20996	51364	A	21122	1	435	
20997	51365	A	21123	1	524	
20998	51366	A	21124	1	602	MGKGSPAHAQGPSFLHGGAG DQGRGRPITLYEDRGFQGRHY ECSSDHPNLQAYLSRCNSVRVD SGCWVLYEQPNYSGLQ*FLRR GDYADHQWMLSDSVRSCR LIPHASSHRLRIYEREDYRGQM VEITEDCSSLHDFHLSEIHSFN VLEGSWVLYELPNYQGRQYLL RPGDCRWCQDWGATDARVGS LRRARELY
20999	51367	A	21125	1	1239	
21000	51368	A	21126	298	408	
21001	51369	C	21127	92	241	

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21002	51370	A	21128	33	191	RDDPRVRPPNSHT*PQQEPGL* LIKCTSPQAPAPRTVHGPFY MRLIKMF
21003	51371	A	21129	3	1285	
21004	51372	A	21130	3	3468	QPGHTIYLLPTVVICNLLPCELD FYVKGMPINGTLKPGKEAALH TADTSQNIELGVLENFPLCKEL LIPPGTQNYMVRMRLYDVNRR QLNLTIRIVCRAEGSLKIFISAPY WLINKTGLPLIFRQDNAKTDA GQFEEHELARSLSPLFCYADK EQPNLCTMRJGRGIHPEGMPGW CQGFSLDGGSGVRALKVIQGG NRPGLIYNIGIDVKKGRGRYIDT CMVIFAPRYLLDNKSSHKLAF QREFARGQGT
21005	51373	A	21131	3	451	
21006	51374	A	21132	2	107	LEGLEES/VRDRCKKEFTDLMIE MDSRLLGPTSKVK
21007	51375	A	21133	2	158	PGIPVL/DYRITYTDGFFSLPSKD GDKDVMITGKLDILKPQNQHR VFTVESRVI
21008	51376	A	21134	2	5632	FVRRTCRESRCWPGAETELDH WSLGEGVRGAMALQLWALT LGLLGAGASLRPRKLDFRSEK ELNHLAVDEASGVVYLGA VNA LYQLDAKLQLEQQVATGPALD NKKCTPPIEAS\QCHEAEMTDN VNPLLLVDPPRKRLVECGQLLK GICALRALSNI SLRLFYEDGSG EKS FVASNDEGVATVGLVSSTG PGGDRVLFVGKGNPHDNGHIV STRLLDRTDSREAFEAYTDHAT YKAGYLSTNTQQFVAAF
21009	51377	A	21135	168	5568	AREKCGGAMGAGSSTEQRSP E QPPEGSSTPAEPEPSGGGPS AEA APDTTADPAIAASDPATKLLQ K NGQLSTINGVAEQDELSLQEGD LNGQKGALNGQGALNSQEEEE VIVRQVDHIDSEDVSDRDSDE TE MTTKSAVVHDITDDGQEETPD I IEQIPSSSENLEELTQPTESQAN D IGFKKVFKFVGFKFTVKKDKTE KPD TVQLLTVKKDEGEAGA G GDHQDPSLGAGEAASKESEPK QSTEKPEETLKREQ

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21010	51378	A	21136	807	1162	ISYHGGRRRRPQ/PVGPLGSCRS *SSRRWSTTGRTTFRAGWKSCS TPPSTSSLPTSTGTW*GPGTSAL LPPTPLPPRAAATPCACACASE SRMPAARALGLRVRRRLLEGRS GKDTQG
21011	51379	A	21137	1	562	
21012	51380	A	21138	1	423	
21013	51381	A	21139	1	1871	MTTFKEAMTFKDVA VVFTEEE LGLDLAQRKLYRDVMLENFR NL LSVGHQAFHRDTFHFLREEK IWMMKTAIQREGNSGDKIQTE METVSEAGTHQEW SFQQIW EKI ASDLTRSQDLVINSSQFSKEGDF PCQTE/ARTICNSHKTEI/FPRA/I GYKPSFSDVSHFDHFHQQ LHSGE KSHTCDECGKNFCYISALRIHQ RVHMGEKCYKCDVCGKEFSQS SHLQTHQRVHTGEKPFKCVEC GKGFSRRSALNVHH
21014	51382	A	21140	1056	2988	FCILIGDKIQTEMETVSEAGTHQ EWSFQQIW EKIASDLTRSQDLV INSSQFSKEGDFPCQTEARTICN SHKTEIFPRAIGYKPSFSDVSLF DFHQQ LHSGEKSHTCDECGKN FCYISALHINHQRVHMGEKCYK CDVCGKEFSQSSHLQTHQRVH TVEKPFKCVECGKGFSRRSALN VHHKLHTGEKPYNCEECGKAFI HDSQLQEHQRIHTGEKPFKCDI CGKSFCGRSRLNRHSMVHTAE KPFRCDTCDKSFRQRSALNSHR MIHTGEKPYKCEECGKG FICRR DLYTHH MVHTGEKPYNCKEKG KSFRWASCLLKTSSESHSGVEKP FKC\EECGKGFYTISQCYS\HQR SHSGEKP YKVECGKG YKRRL DLDFHQRVHTGEKLYNCKEKG KSFSRAPCLLKHERLHSGEKP QCEECGRFTQNSHLHSHQR\V HTGEKPYKCEKCGKGYNSKFI L YMHQ\RVHTGERPYNCKEKGK SFGWASCLLKHQRLHSGENPFK CEECGRFTQNSQLHSHQRVH TGEKPYKDECGKGFWSST\R LTHQR\RH\ SRETPLKCEQHGK NIV\QNSFS/EKLPEKVHQC*KK PYKCEDL/CGKGYNRRL*IL\DM HQR\VHMGEKTWKCRECDMCF ISQAS\SLRLHQNVHVGEKP

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21015	51383	A	21141	154	1470	KDGDHMGYTYKVIERILEIGAF RPHMSLGQLQSARGVACLGCK GTCSGFEPHSWRKICKSC\NAA KRTTA*HLT*KNDRKLGRWLR DSKYSTLHLLG*KAGTASGFYK RNP\MILTNPATGKDPTFDTIT YEWGSPWEFTQETGDCSYMGA HSPREEGSQLTGHQRGAFYRA ARPAHAPGLPIYD\QDPLALPVD FWRNELKTEWKEFVK\KYKSE GPSA\GEVALPGQGWLAPRKE GE/GSRKKPEGGRP/PAATTNG SLSDPSKEVEYVCELCKGAAPP DSPVVY\SDRAGYNKQWHPTCF VCAKCEPLVDLIYFWKDGAP WCGRHYCESLRPR/CAPACDE\N IFAEDYQRVEDLAWHRKHVC EGCEQLLSGLGVHRHPGVQLL VPQLAASPKRSLKGCPTPQPESP GIPTEKDKPGCARDPSLRVPDV TSKPSEINQ
21016	51384	A	21142	1	1332	
21017	51385	C	21143	147	272	
21018	51386	A	21144	160	374	ETPVSSRCEKHVSSPHLCPGIHR AVSLSSH\STCGRSWRSELHGPQ STNLSGNTLPLHFLFGAWQTG VFKM
21019	51387	A	21145	3	4366	LGAQQRELQEALGARAALAL LGRLQAERRGLDAAHERDVRE LRARAASLTMHFRARATGPAA PPRLREVHDSYALLVAESWRE TVQLYEDEVRELEALRRGQES RLQAEETRLCAQEAELRREA LGLEQLRARLEDALLRMREEY GIQAEERQRAIDCLEDEKATLT LAMADWLRDYQDLLQVKTGL SLEVATYRALLEGESNPEIVIW AEHVENMPSEFRNKYYHYTDS LLQRENEWNLFSRQKAPLAS
21020	51388	A	21146	1	4617	RVIDCLEDEKATLTAMADWL RDYQDLLQVKTGLSLEVATYRI VEHVAVEGVSKLWKPLWQKS QSLVISSGVSTGGRLNLERLRR GPTPLASTESVKQVLVNNRMII DDEMVKTLAMSRTCSAPNPLT ADVKTWSRSYSEDAATGPVL GVASTVALLEGESNPEIVIAE HVENMPSEFRNKSYHYTDSL QRE\NERNLFSRQKAPLASFNH SSALYSNLSGHRGSQTGTSIGG DARRGFLGSGYSSATT

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21021	51389	A	21147	2	435	
21022	51390	A	21148	1	1233	MCEEETALVCDNGSGLCKAG FAGDDAPRAVFPSIVGRPRHQG VMVGMGQKDSYVGDEAQSQR GILTLKYPIEHGIITNWDDMEK KKEAEELARNMAIQQELEKEK QRVAQQKQQQLEQEQFHAFEE MIRNQELEKERLKIVQEFQKVD PGLGGPLVPD/SGEALLRCVPHL NSLIHTAFRLSHNCKAS*ATCG GOVLETWSTEQLRKYSNRWI APCGGAWAAVPTVSPVSCQCH CPGSGDMWNSLWKTDEE*YH YPCSHPAKCVV*LLQHRERR RTFPHTGSAGPHHTGLDSCQF *AVREHGVRGIHETTYNSIMKC DIDIRKDL YANNVLSGGTTMYP GIADRMQKEITALAPSTMKIKI APPERKYSVWIGGSILASLSTFQ QMWISKPEYDEAGPSIVHRKCF
21023	51391	A	21149	2	1273	PRVRPRVRPRVRSLGEEPLIPSV LRSPAHSATHTMCEEETALVC DNGSGLCKAGFAGDDAPRAVF PSIVGRPRHQGVMVGMGQKDS YVGDEAQSQRGILTLKYPIEHG IITNWDDMEKIWAPLLLTMEI RVSTWKRHPTLLTEAPLNPKAN REKMTQIMFETFNVPAMYVAI QAVLSLYASGRITGIVLDSD GVTHNVPIYEGYALPHAIMRLD LAGRDLTDYLMKIL/AKRGGY SFVTTAEREIVRDIKEKLCYVAL DFEK*WATAASSSSLEKSYELP DGACLSPIGWTLPCPETLFQP YFISNGVPLEFNDDNLTIPSMK CDIDIP*GLICPTMFLSGGTTHV PWALLDRIQKENPSGPPGTMK IKIAPPEREVTSVWD/LGGSILA SLSTFQA\MWISKPEYDDAGPSI VHRKCF
21024	51392	A	21150	95	674	

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21025	51393	A	21151	1	1536	MGGGEQGTLRTAENQGLQVCP GEAGSSLGFSGNTPTNGLPARG DQTSYRDFWSGPQFPDTSRLTA APGAREQCGTHGGEGSTLEGSR PDVPQDLFSPTLGFYGSTYPELE QGMLGGH*/G/PAENQGLQVCP GEAGSSLGFSGNTPTNGLPARG DQTSYRDFWSGPQFPDTSRLTA APGAREQCGTHGGEGSTLEGSR PDVPQDLFSPTLGFYGSTYPELE QGMLGGHVEASREYQMLSHV GNPDYPHALATEQATSPSTESG SAGFKGVALAMLSKITMCVRIG ILVFQDDQGSCKAFSTTGMG LVTYLLTCRAW SRLQCGASYR AHDVNVLPGCSGPAALLLGDW FSLHSSDAVLP AQGQGM LSQG EADACITLPHLFPSREVVFLGL EAGGLIPGAEGPPEDMGLVRGP PAVAAGPPPRWLSPEFCLLQYS EEEGCKEPLWLKVEAEVSTLYR FMPTGFTRGPFNIEHREWGNTT ATWTRMISNHNKHSQRGRKMT ARLPCGGAPHFSDRTDDKWRR SSLLTRSGCQTERLLTSQTEPLP AGGSPHFSNGETGQRRSSPPQR GCDRPQALLTSKTEQQRKSASH ISYDERPGK DAPHFLDGMVAG KRRSSL SRLGSQA

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21026	51394	A	21152	689	2176	PATSPTSRAMAQPSAPAASMLL PCPECPSPGPRFMTCCLSVSTFCS PSLRRPPGSIKGSSGLGGG\SSRT SCRLSG\ALGAGSCRLGSAGGL GSTLGG\NSYSSCYSFGSGGGY GSSFGG\VDGLLA\GGEKA\TMH NLIDFLASYLDKVPCPWKEAN TELEV\KIRD\WYQRQ\APGPAR DYSQYYRTIEELQNKILTATVD NANILLQIDNARLAC/ADDFRT K\FETEQA\RL\SVEADINGL\R RVL\DELTLARAD\EMQIENLK EEAWPTLKERTTEGRRLNALR GQVGW*RSMLEMDAAPGVDL SRILNEMPSCVDHRVTRCINRP GAELKLGSGGWTEELKREVAT NSELVQSGKSKISEL\RRTMQAL EIELQSQLSMKA\SLEGNLGGD RATAYCVQLS\QIQGL\IGSGED QLAQLR\C\EMEQQ\NQDYKILL DVKTRLEQEIATYRRLLEG\ED AHLT\QCKKEPVTTTRQV\RTIVG KRSRD\GKVILLPRSRFHQTTR
21027	51395	C	21153	58	252	
21028	51396	A	21154	2	190	
21029	51397	A	21155	2	432	KMADGVVDHIDIYADVGEFNFQ EA EYGGHDQIDLYDDVISPSAN NGDAPEDRDYMDTPPPVPGYG PPPGPPPPQQGPPPPPGFPFRPP GPLGPPLD/TLAPPHLPG\PP\PG \APPPA\PHVEPSFLFLPPINS GH GLHSDRPRFH
21030	51398	A	21156	1	1070	MGGIGARAAAAGKRRRRRARA PPGLPPPTSDGGGGAAAASSLR RLHAAPPPGSAAGSASRVPTI GSEAAPAREDRLHSGRVRAS GSPRLTRPRPVKRRGRTRGGGA PRQGSAAAPRGKGAHSAVAS ARAAAGPGSASRPHGAASAAG TWALTYLVELFADIRVNVYVV HAVRHLP SACAAAAAASCRF ALVGVGSEASSKKLMDLLPKR ELHGQNPVVTPCNKQFLSQFE MQSRKTTQSGQMSGEGKAGPP GGSSRAAFPQGRGRGRFPGA VPGGDRFPAGPGGPPPPFQD PSVNSDPVCGTFG/EH*PPGYQT PSNLSVRPMAKPKPEGTDLSRS REGFFKSRFAPN



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21031	51399	A	21157	63	1750	MKMAGGVNHIDIYADVGE*FN QEAEYGGHDQIDVHDDAISP ANNGDAPEDRDYMDTLPPTVG DDVGKGAAPNVVYTYTGKRIA LYIGNLTWWTTDEDL TEAVHS LGVNDILEIKFFENRANGQSKG FALVGVGSEASSKKLMDLLPK RELHGQNPVVTPCNKQFLSQFE MQSRKTTQSGQMSGEGKAGPP GGSSRAAFPQGGGRGRGRFPGA VPGGDRFPGPAGPGGPPPPFPA GQTPPRPPLGSFQGPAPGPPPP PGQVLPPPLAGPPNRGDRPPPPV LFPGQPFQGPPLGPLPPGPPPPV PGYGGPPGPPPPQGGPPPPGPF P\PRPTGSNLGHPLTLAPPSAFP GP\PP\GAPPPSPHVNP\AFFPPT NSGMPTSDSRGPPPTDPYGRPPP YDRGDYGP PGREMDTARTPLS EAEFEEIMNRNRAISSAISRAV SDASA/GVDYGSAIETLVTAISLI KTIPKYPADD/RCTKFLISSLQD CLHGIESKSYGSGSRRRERSRER DHSRSREKSRRHKSRSRDRHDD YYRERSRERER\HRDRDRD\RD RERDREREYRHR
21032	51400	A	21159	1	96	TNFKSGLLGAAED*HCPIASE AP*TITDAEL
21033	51401	A	21160	1	1056	MWKGPGLDMYGKSSVSPKTS DILGRDTLLLALKVQTVVLQTA CGEGHVAGNCGRPLETEGSLQ LTATKKLRDSVLQPKSPEFCQQ FTRAWNRTQVPDETEAPAGTY AAQSGDLPWEINPLSSCSLLHE KDPPTASGPQTDQPKHELTNFK SGFRGVRP/LQGRLPWSFTLSGK SRFSGEGASTPTPSLCVSTPSPPF WGARNTOPLLHPEWQ/CPLF* RSKYPNLVSLCPSPLFPRPDLLS L/SAQSLISAPQPLISLCPNPLFPC PDLLSLHPNPLFPRPNPFPAFLE GACYKCQKSGHQAKECLQPGI PPKLRPICAGPHWKSDCPTHLA ATPRAPGTLAQGS LTASQIFLA
21034	51402	C	21161	283	408	

2669

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21045	51413	A	21172	266	1003	SCMCLALDPCNHGEGHQPDFS GVKFRRHGADNHEASAATATT AAATTVAIAAAAAAAAAAAR VTLTGSHFQSPWNSGPRLSDSF PDLLSLATED*RCPIASEVPWTI TEAELRVTLTVEGKSIPCLIDTG ATHSTLPSFQGPVSLAPITVVGVI DGGASKPL\KTPPLWACQLGQH SFMHSFLVIPHL/CPIFLIRGRNII TKLSVASLTIPGSTANISLVAFFP NPKPPLCPLTSPQYHPLPQDLPS A
21046	51414	A	21173	2	245	LTALLRKSLDPRLISTGENTQTA ETMGPLSAPPCTQHITWKGLLL TAETPKPSISSNNLNPRGGHGRL CALILLIEDSG
21047	51415	A	21174	3	324	
21048	51416	A	21175	3	552	
21049	51417	A	21176	3	435	
21050	51418	A	21177	3	1459	GAVRTWGRGFQTEKCQASLLN FWNPPTTAQVTIEAEPKVSKE KDVLLLVHNLQPQLAGYIWK GQMKDLYHYITSYVVDGQIIY GPAYSGRETIVYSNASLLIQNVT REDAGSYTLHIVKRGDGTGET GHFTFTLYLIPWTLTYL*RSIA QVSHYETPGKTAPPCGSTA**L N*PPDLTLFSPVLFLLKYPVPGQ AFQYPKGLKTIGSSITHL*DVLG KGSCRENIPRAAK*D*N*EDSST ACSK*GPQVETPKPSISSNNLYP REDMEAVSLTCDPETPDASYL WWMNGQSLPMTSLQLSKNK RTLFLFGVTKYTAGPYECEIRN PVSASRSDPVTNLNLLPKLPKYI TINNLPRENKDVLAFTCEPKS ENYTYIWWLNGQSLPVSPRVK RPIENRILILTQCSREMKQGPY QCEIQ\DRYGG\IRSYPVTLECP/ HITTKHSGLYACSVRNSATGME SSKSMTVKVSAPSGTGHLPLGN

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21051	51419	A	21178	3	1445	IRADPAHELENCSCPGKRLSTE RGRTAQLTAVLREFLDPRLISTE ENTQAAETMGTLSPCTQRIK WKGLLLTASLLNFWNLPTTAQ VTIEAQPPKVSEGKDVLLLVHN LPQNLTGYIWYKGQMRDLYHY ITSYVVDGEIIIYGPAYSGRETA YSNASLLIQNVTRDAGSYTLH IHKGDDGTRGVTGRFTTLHLET PKPSISSNLNPRETMEAVSLTC DPETPDASYLWWMNGQSLPMT HSLKLSETNRTLFLLGVTKYTA GPYECEIRNPVSASRSDPVTNL LPKLPKPYITINNLNPRENKDVL NFTCEPKSENYTYIWWLNGQSL PVSPRVKRPIENRILIPSVTRNE TGPYQCEIRDYGGVRSRSDPVT NLVLYGPDLPRIYPSFTYYRSGE VLYLSCSADSNPPAQYSWTINE KFQLQGQKLFIPHITTKHSGLY VCSVRNSATGKESSKSMTVEV SGKWIPASLAIGF
21052	51420	A	21179	3	1380	TAQLTAVLREFLDPRLISTEENT QAAETMGTLSPCTQRIKWK GLLLTASLLNFWNLPTTAQVTI EAEPTKVSEGKDVLLLVHNLQP NLTGWIWYKGQMRDLYHYITS YVVDGEIIIYGPAYSGRETAYSN ASLLIQNVTRDAGSYTLHIHK DDGTRGVTGRFTTLHLETPKP SISSNLNPRETMEAVSLTCDPE TPDASYLWWMNGQSLPMTHSL KLSETNRTLFLLGVTKYTAGPY ECEIRNPVSASRSDPVTNLNLLPK LPKPYITINNLNPRENKDVLNFT CEPKSENYTYIWWLNGQSLPVS PRVKRPIENRILIPSVTRNETGP YQCEIRDYGGIRSDPVTNLNL YGPDLPRIYPSFTYYRSGEVLL LVLF CGTLNPPAQYSWTINEKF QLPGQKLFIRHITTKHSGLYVC SVRNSATGKESSKSMTVEVSAY SSSINYTSGNRN

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21053	51421	A	21180	2	1341	TEGGRTAQLTAMLRQLLDPRLI STEENTQAAETMGPLPAPSTQ RITWKGLLLTASLLNFWNPPTT AEVTIEAQPPKVSEGKDVLLLV HNLQPQLPGYFWYKGEMTDLY HYIISYIVDGKIIYGPAYSGRET VYSNASLLIQNVTRKDVAGTYT LHIIK\RGDETREEIRHFTFTLYL ETPKPYISSSNLNPREAMEAVR LICDPETLDASYLWWMNGQSL PVTHRLQLSKTNRTRYLFGVTK YIAGPYECEIRNPVSASRSDPVT LNLLPKLPIPYITINNLNPRENK DVLAFTEPKSENYTYIWWLN GQSLPVSPGVKRIENRILILPSV TRNETGP\YQCEIRDYGGIRSY PVTNLVLYGPDLPRIYPSFTYYR SGENLDLSCFTESNPPAEYFWPI \*GKFQQSGQKLFIPQITRNHSG LYACSVHNSAAGKEISVSLFRH
21054	51422	A	21181	1	1532	MTQFPMDKRQGRSRVAITNT AVTSLEWVPFHAFIPRSTLVS QQRLSTERGRTAQLTAVLREFL DPRLISTEENTQAAETMGTLA PPCTQRIKWKGLLLTASLLNFW NLPTTAQVTIEAEPKTVSEGKD VLLLVHNLQPQLTGYYWYKGA MR\DLHYVTSYVVDGQIIKYG \PAYSGRETAYSNASLLIQNVIT REDVAGSYTLHIIKGDDGTRGVT GRFTFTLHLETPKPSISSSNLNP ETMEAVSLTCDPETPDASYLW WMNGQSLPMTHSLKLSETNRT LFLLGVTKYTAGPYECEIRNPV SASRSDPVTNLNLLPKLPKYITI NNLNPRENKDVNLFTCEPKSEN TYIWWLNGQKPP/VSSPRVKR PH*KTGSLIPTVFTRNETGP\YQ CEIRAR\YGGVIRSDPVTNLVLY GPDLPRIYPSFTYYRSGGKSSY LSCFCGTSNPPAQYSWTIN*K VFSLPGTKALYSRHITTKHSGL YVCSVRNSATGKESSKSMTVE VSDWTVP
21055	51423	B	21182	28	29751	

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21056	51424	A	21183	158	1660	EASLLEDDDDGMVYLRPLTSHQ YRTAQLRAMLRKFLDPRLSSTE ENTQAAETMGPLSAPPCTQRIT WKGLLLTASLLNFWNPPTTAQ VTIEAEPKTVSKGKDVLLLVHN LPQNLAGYIWYKGQMKDLYH YITSYVVDGQIIYGPAYSGRET VYSNASLLIQNVREDAGSYTL HIVKRGDGTRGETGHFTFTLYL ETPKPSISSNNLYPREDMEA VSL TCDPETPDASYLWWMNGQSLP MTHSLQLSKNKRTLFLFGVHK VHCRDPMECEIREPS*VASRS*P SSPWNLLPKL\PKPYIT\NNLNLP REKKDVLAF\TCDP\KSRNYTYI WWLNGQSLPVSPRVKRPNIENR DPSFLP\SVTRNETGP\YQCEIRD \RYGGVIRSYPVTLNVLYG\PDLP RIYPFISPIYHFREENLRTLSCFC GTFNPPGRVFLGTINGGSFQVIQ GQKALYSPRITTKHSGA/LYAW LCSVTSRPLAWESSQIPWTV\KV SGSFQGTGTSSWGLNPL
21057	51425	A	21184	927	1378	QPPTLRSWDCWFAWGKRQLM SSP/STEPQVCFTIEGHEIDFLG TGMAFSVLISCPG*LSSRSVTIR GILG*PVTRYFSHLLSCNWETLL FSHNAKTQGGGTLTLPKPSKSH RPWAVRGLAPGPA AAVLNFS GLSCLPTGQGLGPA AHHA
21058	51426	A	21185	1	221	ILLAQLESQDGDILRQRDEFDLL VAGEICRFSALIEELE\EKNERPA RELLTVRPEPEPCPTCAVLRLLH LCLA

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21059	51427	A	21186	335	1963	VCDPALPPWAKQREWALEGSH SSRTSMGLLVASVTSLGRWKF NCPI/CVQGTLEAGSLSNCG/H KNFCRACLT\RYCEIP\GPD\LEE SP\TCP\LCKEPFRP\GSFRPNWQ LANVVENIERLQLVSTLGLGEE DVCQEHEGEKIYFFCEDDEMQL CVVCREAGEHATHTMRFLEDA A\APYREQIHKCLKLRKEREI QEIQSRENKRMQVLLTQVSTKR QQVISEFÄHLRKFLÉEQQSILLA QLESQDGDILRQRDEFDLLVAG EICRFSALIEELEEKNERPAREL LTDIRSTLIRCETRKCRKPVAVS PELGQRJRDFFPQALPLQREMK MFLEKLCFELDYEPAHISLDPQ TSHPKLPLVPRTIQR\AQFS*QM GRTSPDNPQRF\DRATCVSRPT LGITGGRHTWVVSIDLAHGGSC TVGVVSEDVQRKGELRLRPEE GVWAVRLAWGFVSALGSFP\TR LTLKEQPRQVRVSLDYEVGWV TFTNAV TREPIYTFTASFTRKVI PFFGLWGRGS\SFSLSSLRSSY LLSSKYRTHINPSTMWT
21060	51428	A	21187	217	397	
21061	51429	A	21188	529	1526	YCGRVGELAAGELVFLWSRVG PQNPRSSRLPPPTLAMFLTRSEY DRGVNTFS\PEGRLFQVEYDIEA IKLGSHSQLAPRHREGV\ALAV EKRIYLPHLMGAQAGI*GKLLG DLMLHIGLLPIEWGLICMLKT FNSIKSRVGRHR\YPWGSPYNG GH*QWESFEPKLCPNLGFSSFG EEDAESRVPM\SRPLGSSHLFIW EELYEKGTPSLFP*GTPFWGPFV PVWMARSQFGSGFQRGAPRAP LPRKFPPTSPMTFERSPPSSPSHP SLKQVMGGRKLNANQTIEPRPT VPALAENFP\HCSQRKKLEEVQ GHFKESWILRTSLGTISVLNNVP
21062	51430	A	21189	211	382	TSVSPSPVPLPC*RHPGEPQTGN NASNGTSSSRDESPPVRVPPPP QTAVAITLSTA
21063	51431	A	21190	3	96	FFFPPQKYD*DR*EHPRFHKTLR NWRVGAQ
21064	51432	A	21191	1	1320	
21065	51433	A	21192	1	339	

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21066	51434	A	21193	289	3694	MAFVPVIPESYSHVLAEFESLDP LLSALRLDSSRLKCTSIIVSRK WLALGSSGGGLHLIQEGWKH RLFLSHREGAISQVACCLHDDD YVAVATSQGLVVVWELNQERR GKPEQMYVSSEHKGRRVTALC WDTAILRVFVGDHAGKVSAIK LNTSKQAKAAAAFVMFPVQTIT TVDSCVVQLDYLDGRLLISSLT RSFLCDTEREKFWKIGNKERDG EYGACFFPGRCSGGQQLIYCA RPGSRMWEVNFIDGEVI
21067	51435	A	21194	2	128	
21068	51436	A	21195	1041	2238	LLHPAQRSLSKDGTESLEDA LMGEEGKPEINQQLSLESMELD ELALEKYPIAAPLVPEKSSD GVGNPEAKILSGTPTYKRRVISL LVTIENHTPLVELSEYLGNTLS EILDSPWEGAKNVYKCPECDQ NFSHDSYLVVLHQIHSGEKKHK CGDCGKIFNHRANLRTHRRHT GEKPYKCAKCSASFQSHLSR HMNSHVKEKPYTCSICGRGFM WLPGLAQHQKSHAENTYEST NCDKHFNEKPNLALPEETVSG PQYQHTKCMKSFRQSLYPALSE KSHDEDSERCSG\CGDNFFSFSK FKPLQCPDCDMTFPCFSELISHQ NIHTEERPH*\CKTCEESFALDSE LACHQKSHMLAEPFKCTVCGK TFKSNLHLITHKRTHIKHHVK
21069	51437	C	21196	156	389	



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21070	51438	A	21197	1	2466	MLSRLFRMHGLFVASHPWVEVI VGTVTLTICMMSNMFTGIAG LFTIFSSFVFSTVVIHFLDKELTG LNEALPFFLLLDLSRASTLAKF ALSSNSQDEVRENIARGMAILG PTFTLDALVECLVIGVGTMSGV RQLEIMCCFGCMSVLANYFVF MTFFPACVSLVLELSRESREGR PIWQLSHFARVLEEEENKPNPV TQRVKMIMSLGLVLVHAHSRW IADPSPQNSTADTSKVSLSGLDE NVSKRIEPSVSLWQFYLSKMIS MDIEQVITLSLALLAVKYIFFE QTETESTLSLKNPITSPVVTQKK VPDNCCRREPM LVRNNQKCDS VEEETGINRERKVEVIKPLVAET DTPNRATFVVGNSLLDTSSVL VTQEPEIELPREPRNNEECLQIL GNAEKGAKFLSDAEIQLVNAK HIPAYKLETLMETHERGVSIIR QLLSKKLSEPSVLQYLPYRGY\ NYSLW*WGACCENVIGYMPIP VGVAGPLCLDEKEFQVPMATT EGCLVASTNRGCRAIGLGGGAS SRVLADGMTRGPVVR LPRACD SAEVKAWLETSEGF AVIKEAFD STSRFARLQKLHTSIAGRNL YIR FQSRSGDAMGMNMISKGTEKA LSKLHEYFP*NCRF*AVISGNYC TDKKPAAINWIEGRGKSVVCET VIPAKVVREVLKTTTEAMIEVN INKNLVGSAMAGSIGGYNAHA
21071	51439	A	21198	236	3022	GEGSFRSATALTGARLSVGAGV RWPLVRSGGSKDSVATMLSRL FRMHGLFVASHPWVILGTVT LTICMMSNMFTGNKICGWN YECPKFEEDVLSSDIILTITRCIA ILYIYFQFQNLRLQLSKYILGIA GLFTIFSSFVFSTVVIHFLDKELT GLNEALPFFLLLDLSRASTLA KFALSSNSQDEVRENIARGMAI LGPTFTLDALVECLVIGVGTMS GVRQLEIMCCFGCMSVLANYF VFMTFFPAC
21072	51440	A	21199	1	450	CKSRGSNLRVHFKNTRETAQAI KGMHIRTATKYLKDVTLQKQC VPFRRYNGGVGRCAQAKQWG WTQGRWPKKSAEFLVIEHIQV NKAPKMRRRTYRAHGRINPYM SSPCHIEMILTEKEQIVPKPEEV AQKKKISQKKLKKQKLMARE

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21073	51441	A	21200	1	876	
21074	51442	A	21201	1	1725	
21075	51443	A	21202	278	889	SVKMOVRYSLDPGGTPRKSC/K QRGSNLRVPFKDHS*KLPQAHQ RVCHIRKSPTKY/LKDVHLTRN QCVPIPDYNG*QLGQVCRHK QMGP GTTKGRWPQKGVLKFL PAHALKTAE\SNAEL/KGLDVDS LVIEH\QVKNKAP/KMRRRTYR AHGRINPYMSSPCH\IEM\ILTEK EQIVPKPEEEVAQKKKISPEETE RNKNLLARE
21076	51444	A	21203	1	1923	
21077	51445	A	21204	1	280	
21078	51446	A	21205	1	109	
21079	51447	A	21206	1	638	
21080	51448	A	21207	1	396	
21081	51449	A	21208	26	969	HGVGCRDGLPMECRFLCQIFM AFMQMNSYCARHKKATRRTV* /CRNQDMTESSQKWTGKGS AV EHLVESGEWTMHPARPVSACR CPSDCHVPLSPGACWPKLECLS EGSSYISDGKEYLFYLNVCGET EIQFCNKKQAAVCQVKKSDTS QVKAAGRYHNQTLRPSESSWS LLFVVLVFFPGVHSPFSLDEALT LCPQNCLPPGTVSAPLNCVYPL ALSA AVALAAGSELMECHRLV NSLEVSTAAQGQSSKTQFYACL CRLSTHLWKYSEESGRRLVCSF YQPSELNPALNLSFLVGTRLQE GAALLFIQS GFTIV
21082	51450	A	21209	1	465	
21083	51451	A	21210	217	453	
21084	51452	A	21211	1	840	
21085	51453	A	21212	1	663	
21086	51454	A	21213	176	957	DEPIGVPLLSAPPAGTTKIKADQ LHLQGAAPKICPCLQDGS LGQH YCPFVSFSRYYNLCQKIYKGPL GCSE RASICRRTTTGDVQVLGL VHTQK/LGVIGPRVVVTTSKRY PCGGNKTASSVIELTCTKPVGR PAFKRFEIDSCTYYFSWDSGAA CAVKPQEVQMVNGTITNPINGK SFS LGDIYFKLFRASGDMRTNG DNYLYEIQLSSITSSRN PACSGA NICQVKPNDQHFSRKVGTS DKT KYYLQGNPWLPTKFHI

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21087	51455	A	21214	3	7616	SPVEPRSPRAPAPSPPPPLPWRR DPVPGAAPSSRAPLASRPPRSSG PGAMGAAAGRSPHLGPAPARR PQRSLLLLQLLLLVAAPGSTQA QAAPFPELCSYTWEAVDTKNN VLYKINICGSVDIVQCGPSSAVC MHDLKTRTYHSVGDSVLR SAT RSLLEFN TTVSCDQQGTNHRVQ SSIAFLCGKTLGTPEFVTATECV HYFEWRTTAACKKDIFKANKE VPCYVFDEELRKHDLNPLIKLS GAYLVDDSDPDTS
21088	51456	A	21215	2	184	VNCQPLGMISLMKR\PPGFSPFR SSRI GEI KEETTSHLRSCEYKGR PPKAGAEPASEREVS
21089	51457	A	21216	1	203	
21090	51458	A	21217	1	1107	
21091	51459	A	21218	1	915	
21092	51460	A	21219	1	1932	
21093	51461	A	21220	2	746	

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21094	51462	A	21221	1	2157	MGFPLRPSPAHLSGRQQFPAK EERLLLSLTQESQSEEIDCNDKD LFKAVDAALKKYNSQNQSNQ FVLYRITEATKTVGSDTFYSFK YEIKEGDCPVQSGKTWQDCEY KDAAKAATGECTATVGKRSST KFSVATQTCQITPGGWFILWHC PGGKLTISDYPNSSRVLHCTQC VQGLNRRTRRHKTCPPLQAAS QIEERIGFEGRPGLSEFRAPCLL ASPPFCLEKGAEGPVVTAQYDC LGCVHPISTQSPDLEPILRHGIQ YFNNNTQHSSLFMLNEVKRAQ RQAAP/GREFSSMDTFEGYEGA EDMEKLAGPFPVG*QSRNLFLQ IRFPGEERKHPGRKRRT*GSN GDRQHQEGACWGVHAG*LLR GRRLVSRGRGARGPPPRRAAL PAVAPAPRLQSARIPERGDGDD GVRRWGHREAIGS*GQS/LS/CN GIIILIKEERLPCPFHCISLMKRPP GFSPFRSSRIGEIKEETTVPSPHT SMAPAQDEERDSGKEQGHTRR HDWGHEKQRKHNLGHHGHE RDQGHGHQRGHGLGHGHEQQ HGLGHGHKFKLDDDLHQGGH VLDHGHKHKHGHGHGKHKNK GKKNGKHNGWKTEHLASSED STTPSAQTQEKTGPTPIPSLAK PGVTVTFSDFQSDLIATMMPPI SPAPIQSDDDWPDIQIDPNGLSF NPISDFPDTTSPKCPGRPWKSVS
21095	51463	A	21222	207	424	HHINCVLLYLQSHLRS\CEYQG\ RPPKAGAEPASE\REVSLTNWA ESSTPRHIAPTTASNLEMEGQE ERWDRI

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21096	51464	A	21223	170	1487	IMKLITILFLCSRLLLSLTQESQS EEIDCNDKDLFKAVDAALKKY NSQNSNNQFVLYRITEATKT GSDTFYSFKYEIKEGDCPVQSG KTWQDCEYKDAAKAATGECT ATVGKRSSSTKFSVATQTQCITP AEGPVV\TAQLRTCLG/CVWHPI IQRQSPDLEPILRHGIQYFNNNT QHSSLFTLNEVKRAQRQVVAG LNFRITYSIVQTNCSENFLFLT PDCKSLWNGDTGECTDNAYIDI QLRIASFSSQND\IYPGKDVVQ PPTKICVGCPRDIPTNSPELEETL THTITKLNAENNAISYFKIDNVK KARVRVVAGKKYFIDFVARVET TCSK\ESNEELTESCETKKLGQ RLG\CNAEVYVVPW\EEKIYPT/ VFNCSTTGEWIFT*WKRPPRVF SPFRS\SRIGEIKEET\TSHLRSCE YKGRPPK\AGAEPASEREVS
21097	51465	C	21224	21	281	
21098	51466	A	21225	204	441	QISQVLIICNQK*VILTGNFLDT YF*TTFINKKIDELRLCA/CAVA HSYNTTLCKKPRWKDCLRPV QDQPVQHSETLSL
21099	51467	A	21226	333	604	SSDRITKPPSAEFLPLQRTFLHSL QDTVIELLH*DLETPPLTVLQNH PSLPRPIPAPPTLCPQTRWPHLR GHQGILAASHILETALAAIF

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21100	51468	A	21227	846	3269	GFMEVLRDPIKKNSSSESKPAQS GFSRGNSPLSCPESVEASPAVNE KSVYSTHNYGTTQRHGCRGLP YADHNYGAPPPPTPPASPPVQTI IPRSDLNGLPSPVEERCGDSPNS EGETVPTWCPCGLSQDGFLLNC DKCRGMSRGKVIRLHRRKQDN ISGGDSSATESWDEELSPSTVLY TATQHTPTSITLTVRRTPKPKR KKSPEKGRAAPKTKKIKAFREG SRKSLRMKNSPSEAQNLDENTT EGWENRIRLWTDQYEEAFTNQ YSADVQNALEQHLHSSKEFVG KPTILDTINKTELACNNTVIGSQ MQLQLGRVTRVQKHKILRAA RDLALDTLIEYRGKVMLRQQF EVNGHFFKKIPYPFVLFLQLNL NGVEMCVDARTFGNDARFIRR SCTPNAEVRHMIADGMIHLICIY AVSAITKDAEVTIAFDYEYSNC NYKVDCACHKGNRNCPIQKRN S*CYRTATPTTSSKPTHHSRD *T*KS\RRKELEMEQQNEASEEN NDQQSQEVPEKVTVSSDHEEV DNPEEKPEEEKEEVIDDQENLA HSRRTREDRKVEAIMHAFENLE KRKKRRDQPLEQNSDVEITTT TSETPVGEETKTEAPESEVSNSV SNVTIPSTPQSVGVNTRRSSQA GDIAAEKLVKPPPAKPSRPRPK SRISRYRTSSAQLKRQKQANA QQAELSQAAL EEGGSNSLV TPT
21101	51469	A	21228	2	197	CRPPSPRPVRAARPARPQASFSR EPPPRRMAP*SKRRRQSARGPV RPSRVWARIKAKPYSCCCQL
21102	51470	A	21229	4	488	GSYDINRQDTFQKDRQRVGPSG ASQKTEGFLRLLYSGLIIAHCS LEILGRNDPPASASKVAETDS GSLSLANT*PPTPR/VTSQTANA TSQAAPALPLGSPVGRRAADPR PLLAWAPAPPGPGTSRNTHPAP DGLDMLVPIGDGVLGGNCFRN QCKSVSTS
21103	51471	A	21230	124	293	

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21104	51472	A	21231	239	1393	IYPQISFQKKFVMFFFSEALCTA RAEEDPIGLLNNPRTSRYSRL KPNSSLGGSESRTQMGLPPP PKSPDGARPVPGCIKEAGPARG RSRLAPNPGALRRG/VGLGR*S ARI*GLVSKAAAGQGEARRGE AT*ARGALGRTTAGSFNAGWL TLDGARQQPGRQTPTRIPSCVA DNAAGPSRTTTPD/EALRPLRG GPACTAPASFDSRAPYSASSAPS EGRWPSRGFPPIIS/PLYSQLPETR SHEWQAASKIQPRKASTSQ*SA RMEAT*QQWAGPPAEP*SLWFP RLARRSVVHWRTPY/ISSSITSLP PVAAGIPEDSGPGSTQSSSRPGN TSSSSRPPPPPPPPPP/QPLPPPPA GLASPRPVRRARRPARPQASFSR EPPPRRMAP
21105	51473	A	21232	107	234	
21106	51474	A	21233	224	227	LPQPGPGRRRACLRQASPRQYS RLPGRPPPSG*SW
21107	51475	A	21234	67	607	QRSWAGPGAGPEAGTRPPARG RRRQPGNVDPRRRAPQLRSQM QVAMARATTATGNRLWPGLLI MLGSVCHRGSPCGLSTHVEILL LEHQDAYQAGIVFPDCFYPSIC KGGKFHDVSESTHWTPFLNAS VHYIRENYPLPWEKDTEKL VAF LFGITSHMAADVSWHSLGLEQ GFLRTMGAI
21108	51476	A	21235	54	193	
21109	51477	A	21236	1275	1764	STKCQYFSHLLLLFSASESKQLL LYSAFFRYVPVKDLLGIYEKLYI CFISLLQTGL*RYQE*YHIHFIFS FSLP*LYPTYSTKSPFLVEQFQE YFLGGLDDR*NSCL*RSR*MAN SFDCFLSDSVLQGVVFSVVTSL FLFLFNSSKMQKNDFHRNLTT
21110	51478	A	21237	297	428	QCQRGPGCSRGHGI*I*EHWTA FGLDLRQWFARGSWASGHGP

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21111	51479	A	21238	3247	5958	QRSWAGPGAGPEAGTRPPARG RRRQPGNVDPRRRAPQLRSQM QVAMARATTATGNRLWPGLL MIVMASLCHRGSSCGLSTHIEIG HRALEFLHLHNGHVNYKELL EHQDAYQAGTVFPDCFYPSLC KGGKFHDVSESTHWTPFLNAS VHYIRENYPLPWEKDTEKL VAF LFGITSHMVADVSWHSLGIEQG FLRTMG AIDFHGSYSEAH SAGD FGGDVLSQFEFNFNYLARRWY VPKDLLGIYEKLYGREVITEN VIVDCSHIQFLEMYGEMLA VSK LYPYSTKSPFLVEQFQEYFLG GLDDMAFWSTNIYHLTSFMLE NGTSDCSLPENPLFIACGGQQN HTQGSKMQKNDFHRNLTSSLT ENIDRNIN YTERGVFFSVNSWT PDSMSFIYKALERNVRTMFIGG SQLSQKHVSMPLRH HYFLSFPY ARLGWAMTSADLNQDG\HGD LRGWGAPGLTAAPAHIPHSGR VYLIYGNDLGLPPVDLDL DKEA HRILEGFQPSGRFGSALA VLD NLDG\PD LAVGAPSVGSEQLT YKGAVYVYFGSKQGGMSSSPN ITISCQDIYCNLGWTLAADV N GDSEPD LVIGSPFAPGGGKQKG IVAAFYSGPSLSDKEKLNVEAA NWTVRGEEDFSWFGYSLHGVT VDNRTL LLVGSPTWKNASRLG HLLHIRDEKSLGRVYGYFPPN
21112	51480	A	21239	2	403	VVAEEDTEL RDLLVQTL ENSGV LNRIKAELRAGVFLALEEQEKV ENKTPLVNESLKKFLNTKD\ LQ GLEGREN LARDLGIIEAEGTVG GPLLLEVIRRCQQKEKGPTTGE GALDLSDVHSPPKSPEGK TSAQ
21113	51481	A	21240	3	1699	



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21114	51482	A	21241	3	1812	APRLKMG LHPNKP IVSQSRVVN DGQCKLHAAVDSRDPDGTGR RVSSGGTGLPGPGRGPLPAGA WLSAEGRGAGGSGDCGPSSGS AEPTQRPPRPSALPGAIPPLHLG LAPFRLASEAVAEQAPPAPTLS FGAQWSGAPQGSVSSVNPEGA GPARCASGRGFGCVGRVARAR SVPCCGRWPLARLRRLSWRSK MAATAAAVVAQEDTEL RDLL VQTLNSGVLNR IKAELRAAV FLALEEQEKVENKTPLVNESLK KFLNTKDGRLVASLVAEFLQFF NLDFTLAVFQPETS/TIF*LLF*L QGLEGREN LARDLG IIEAEGTV GGPLL\LEVIRRCQQKEKGPTTG EGALDLSDVHSPPKSPEGKTS QTPPSKIPRYKGQGGKKKTS AGDKKANDEANQSDTSVSLSE PKSKSSLHLLSHETKIGSFLSNR TLDGKDKAGLCPEDDMEGDS FFDDPIPKPEKTYGLRKEPRKQ AGSLASLSDAPPLKSGLSSLAG APSLKDSESKRGNTVLKDLKLI SDKIGSLGLGTGEDDDYVDDFN STSHRSEKSEISIGEEIEDLSVEI DDINTSDKLDLTDLTQDLTVS QSLSDVADYLEDVA
21115	51483	A	21242	419	651	TNIFSR LNPQTKNVFCARQLSS* SVTI*GVLGQAVTRYFSQALSC DWGTLLFSRAFLIMPESPTPLLG RDILAKAGA
21116	51484	A	21243	555	888	RTSSRRTPNCSRIRK NYFKFH MEPKKSP/S*PRQC*AKRTKLEA SCYLTSNYTTRLQ*PKQHG WG TIRSFSSHEAIFQTITWGK TLDN TRLRTEVPAAFHSA LCPWF IET
21117	51485	A	21244	728	1428	
21118	51486	A	21245	238	505	INVGRHHVILQGLS CPGLSSRS VTI*GVLGQAVTIYFSQPLSCD WRTLLFSHVFLIMPESPTPLLGR DILLYVCIGRFPIFRAD CRT
21119	51487	A	21246	940	1434	QLAPCTLTEPRVCLTIEGQEVN CFLDTRAA FVLLSCPRQLSSRS VAIRGVLGQAVT*YFSQPLSCD WGTLRFSHAFLIMPKSPTPLLG RDILAKAGAI IHEKRKA FMRKR EIKKQARSSKVHTSA ASSCART APLGESFAEHLIKIADFTPPSSSS PCTTLFFS

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21120	51488	B	21247	747	1138	
21121	51489	A	21248	1685	2051	SSSRTEGARGKRQPMSP/STEP RVCLTIEGQEVNCLLDTGAAFS VLLSCPGQLSSRSVTI*GVLGQP VTRYFPQPLSCDWGTLLFSNAF LIMPESPTLLGRGILAKAGAIH HAVLVTAAL
21122	51490	A	21249	2	1014	GGAGPVVLRRAACSPGPAPR AARPPAMEPGPDGPAASGPAAI REGWFRETCSLWPGQALSLQV EQLLHHRRSRYQDILVFRSKTY GNVLVLDGVIQCTERDEFQSYQE MIANLPLCSPHPNPRKVLIIIGGGE GG\VLAREVVKHPSVESVVQCEI DEDVIQVSKKFLPGMAIGYSSF EADTYMWGDGF*VSWKQKQD AFDVIIIDSSDPMGPA\ESLFKES YYQLMKTA/LLREDGVLACCQG \ECQWLHLDLIKEMRQFC\QSL FPV/VLAYAYCTIPT/YTPSGQIG FMLCSKNPSTNFQEPVQAVDN SSKVAKMQLK\YYNSERATAA AFVLPE\FARQGLE
21123	51491	A	21250	3	418	FSYEKLLNWQEFVADLEHHSY RSFLGLTCLKQISTRTEDFIIDTL ELRRDMYILNESLTDPAIVKPL AEEMLSYARDDTHYLLYIDK MKLQMRERGNRQTVQLHVWV QRSRDICLKFKIP\FTDESYLE LYRKLKK
21124	51492	A	21251	1	1704	
21125	51493	A	21252	1	3104	MFDTHQAARLLNLGRHSLDHL LKLYCNVDSNKQYQLADWRIR PLPEEMLSYARDDTHYLLYID KMRLEMWERNQGPVQLQVV WQRSRDICLKFKIPFTDESYLE ELYRKQKKHLNTQQLTAFQLL FAWRDKTARREDESYGYVLPN HMMLKIAEELPKEPQGIIACCN PVPPLVRQQINEMHLLIQQARE MPLLKSEVAAGVKKSGPLPSAE \RENVKSQPVQVHL*QRPVLTA GRKLLPACTFYMPACWGL

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21126	51494	A	21253	2	2775	QALARRAVQAEKMAPPSTREP RVLSATSATKSDGEMVLPGFDP ADSFVKFALGSVVAVTKASGG LPQFGDEYDFY\RSFPG\FQAF ETQGDR/LCFQCMSRVMQVPM GCARSN\IKDRSKV\TELEDKF\D LL\VDAN\DVILERVGILLDEAS GVNKNQQPVLPAGLQVPKTVV \SSWNRKAAEYGKKAKSETFRL LHAKNIIRPQLKFREKIDNSNTP FLPKIFHSNPMVQ\KPLPQALSK ERRERPQDRPE
21127	51495	A	21254	3	2668	QALARRAVQAEKMAPPSTREP RVLSATSATKSDGEMVLPGFDP ADSFVKFALGSVVAVTKASGG LPQFGDEYDFYRSFPGFQAFCE TQGDRLQLCMSRVMQYHGCRS NIKDRSKVTELEDKFDLLVDAN DVILERVGILLDEASGVNKNQQ PVLPAGLQVPKTVVSSWNRKA AEYGKKAKSETFRLHAKNIIR PQLKFREKIDNSNTPFLPKIFIKP NAQKPLPQALSKERRERPQDRP EDLDVPPALADFIHQRTQQVE QDMFAHPYQYELNHFTPADAV LQKPQPQLYRPIEETPCHFISSL DELVELNEKLLNCQEFVLDLEH HSYRSFLGLTCLMQISTRTEDFII DTLELRSDMYILNESLTDPAIVK VFHGADSDIEWLQKDFGLYVV NMFDTHQARLLNLGRHSLDH LLKLYCNVDSNKQYQLADWRI RPLPEEMLSYARDDTHYLLYIY DKMRLEMWERGNGQPVLQV VWQRSRDICLKKFIKPIFTDES LELYRKQKKHLNTQQLTAFQL LFAWRDKTARREDESYGYVLP NHMMLKIAEELPKPEQGIIACC NPVPPLVRQQINEMHLLIQQAR EMPLLKSEVAAGVKKSGPLPSA ERLENVLFPGHDCSHAPPDGY IIPSGSVPVQKQASLFPDEKED NLLGTTCLIATAVITLFNEPSAE DSKKGPLTVAQKKAQNIMESFE
21128	51496	A	21255	98	286	HARPRHGPRLRCEVGLRCAPG YAGASARPTCECGDTRYCPQDP NQT*SRVPPIAHRYCLTG
21129	51497	A	21256	1020	1280	
21130	51498	B	21257	153	3804	

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21131	51499	A	21258	159	579	PNVRWCPSCYRNQDDHELQIT HGNKILCGIVWKKIAQVEQMR KFSRLEKQORTHVLSCLDQAVR RFRGVVSEGSFEMGEKVYKRK DMFQLSLLTEQHGDSTLGSGSS YTQMPAENGSLVHTLVTAAPPF FAEKPHSITAG
21132	51500	A	21259	1	1290	MGASRSQKPGPSRDYSYTAGC DVDQRRRGAAQKLSRSDTKRIV MSYGKKALKNDKFEIRAFSSSL EVRYRNQDDHELQIHTGTREY VELCGFAVTRLRDPMLRHAA MALLPWRPPDYSASLLPDWLP VPSSKVVITYPGFTSIWAFSNT T/LCSEYKYYCEECSKQE/AHK RRKV*KLPMILAP/HLKRFKYK DQLHRFTKLFTRASLRGPRDER LKRVSRLFSLVVTSRVFDVL LRILHRLGQYVSSEYYVALMCS EGHGPGAEDVTELLQSHEKTE WMRSCFFWMTKSGVFDGIYLW NAFNQEGEDLYKENCKTLMKE VEDAQINGKTSYAHGSEYCK MSILPRILLQISRDDCFKIVLKF CVDHQKTKKCCMITLKSSVVQ LAFTIKISVSEMCAREDFVVVIS FQHSEVPSRQLARCTFKEGYT
21133	51501	A	21260	3	142	
21134	51502	A	21261	1	1368	

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21135	51503	A	21262	1	2420	MEEVAEAPQIDPKPLATQ PQSI IITTTITITITTTTTITTTTTITIT IITTTITITTTTTITTTTTITTTTTIT TITITITITTTTTITTTTTITTTTT VITITTTITTTTTITTTTPSSSSPSS QADECWGEAEPLMSRQAHVW LRYRTGCREERPDQELTGSWG HGPRSTLVRAKAMAPPPPLAA STPLLHGEFGSYPARGPRFALT TSQALHIQRLRPKEARPRGGL VPLAEVSGCCTLSRSPSDSAA YFCIYTYPRGRRGARRKATRTF RADGAATYEENRAEAQRWAT ALTCLLRGLPLPGDGEITPDLLP RPPRLLLLVNPFGGRGLAWQW CKNHVLP MISEAGLSFNLIQTER QNHARELVQGLSLSEWDGIVT VSGDGLLHEVLNGLLDRPDWE EAVKMPVGILPCGSGNALAGA VNQHGGFEPALGLDLLNCSLL LCRGGGHPLDLLSVTLASGSR FSFLSVA WGFVSDVDIQRFR ALGSARFTLGTVLGLATLHTYR GRLSYLPATVEPASPTPAHSLPR AKSELTLTPDPAPPMASPLHR SVSDLPLPLPQALASPGSPEPL PILSLNGGGPELAGDWGGAGD APLSPDSTAGFTSWLSQGSSTLT RLRRGPRNSPILWAPTSHP*CPG RGLHVRGPPDHLLPPLGTPLPPD WVTLEGDFVLM LAISPHLSAD LVAAPHARFDDGLVHLCCVRS
21136	51504	A	21263	573	1025	RKQSHEDWRSTNKT VGHPSA RLYEPPWWAHTWTPPGGSKAP SDP/PLSHQLSPPAGQPHFASPEP TSKTPDPWPGNVFSSFP LPQSLP ELRHTLYLPMGTKKPPGSSMIF YT*AQYPGTNSSATICRLLSYKS GQVYPNTGQAPPQQRGR
21137	51505	A	21264	48	327	EELEALRR\QRLAELQAKHGD GDA\AQQEAKHREAEMRNSILA QVLDQSARAR\VSEQGLIEILKK VSQQTEKTTTVKFNRKVMDS DEDDDY
21138	51506	A	21265	1	400	
21139	51507	A	21266	786	905	VSEQGLIEILKK* CQLTEKTSTV KFNRKVMDSDEDDDY

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21140	51508	A	21267	907	1327	PRLQ RSTPSPWRTEELEALRR\ QRLADAAGQNTGDPGDAA\QQ EAKAPGQAEMRNSILAQVPGSS PAPAPRLSNLSHLVKP*KNLKP \VENYPYTRLARYWTT*VMTGI RNQGFN*KSLKKVKAQ\QTEKT TTVKFNQKKK
21141	51509	B	21268	1	828	
21142	51510	A	21269	317	2390	KWPKMNPQQQRMAAIGTDKE LSDLLDFSAMFSPVNSGKTRP TTLGSSQFSGSIDERG\GTTSW GTSGQSP\SYDSSRGFTDSPHY SDHLNDSRLGAHEGLSPTPFMN SNLMGKTSESGSFLYSRDTGL PGCQSSLLRQDLGLGSPAQLSS SGKPGTAYYSFSATSSRRRPLH DSAALDPLQAKKVRKVPPGLPS SVYAPSPNSDDFNRESPSYSPK PPTSMFASTFFMQDGTHNSSDL WSSSNGMSQPGFGGILGTSTSH MSQ\SSSYGNLHSHDRLSYPPHS VSPTDINTSLPPMSSFHRGSTSS SPYVAASHTPPINGSDSLGTK GNAAG\SSQTGDALGKALASIY SPDHTSSSFSPNPSTPVGSPSPLT GTSQWPRPGGQAPSSPSYENSL HSLQSRMEDRLDRLDDAIHVLR NHA VGPSTSLPAGHSDIHSLLG PSHNAPIGSLNSNYGGSSLVASS RSASMVGTHR\EDSVSLNG\NH SVLSSTVTTSSDTLNHKTQENY *RWPKSQSGT\VPQEIKTEN KEKDENLHEPPSSDDMKSDD\* SSQKDIKVSSRGRTSSTNEDEDL NPEQKIEREKERRMANNARERL RVRDINEAFKELGRMCQLHLKS EKPQTKLLILHQAVAVIL\SLEQ QVRERNLNPKAACLKRREEEK VSAVSAEPPTTLPGTHPGLSETT
21143	51511	A	21270	2	153	QNASSPSKGSQLLTSKGTKLDG E*V**INRSRLQKVANNKLLWR KLKGQF

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21144	51512	A	21271	1	1230	MRKTQCKNAESSKNQNASFPP KDHNSLTAREQNWIENEFGELT EVGFRRLNQEEVEFLNRPITGSE IEAIINSLATKK\GPEGFIAEFY*R KTQCKNAESSKNQNASFPPKD HNSLTAREQNWIENEFGELTEV GFRRLNQEEVEFLNRPITGSEIE AIINSLATKKRTRGIHSRILLEVI TSFYVERGGNAMSFMGKGVTK STILCLLHLSHEMMAQAGSLE WMSLWFLPLGSHSEEHIPTQQG LAWLIPLWVDRDPEVRFTSLGL GSALTTLETGCVLANSCQNIS GGLWGTVVNILLDQSECSMVR RESQHHVDVAKVYHLHPPPEW WPKLYLGPLDHSRELRSSVLEC MEQRLEVTLGTTPYFSPISKFI QAVTTKCLRLGASRFSVCLAGL SAAPEQKIHPPPTQQFQQLPHD SVGFLQFSLHPKGNFGSGISSPD RSGDASHYSYPSLWQIRGTSRV KKQTWGSGNLKKWGIHKVQP QRLMMQNDDTDEESI
21145	51513	A	21272	1	987	
21146	51514	A	21273	180	466	ARGSERAAASFASMYEGKKT KNMFLTRALEKILADKEVKKA HHSQLRKACR\VALEGNKAE TEKQSPPHGEAKAGISTLPPVSK SKTNFIEADKYF
21147	51515	A	21274	1	1224	
21148	51516	A	21275	251	5986	SCRCPRLQSPTSTSPFSLFLP LLLLPSSRWEPRVGRAAASFSA SMYEGKKTKNMFLTRALEKIL ADKEVKKAHHSQLRKS/CGRV ALEEIKAEKQSPPHGEAKAG SSTLPPVSKSKTNFIEADKYFLPF EL\ACQSKCP\RIV\STSLDCLQK L\IAYGAL*LGNAPDSTTPGKKL IDRIIETICGCFQGPQTDEGVQL QIIKALLTAVTSQHIEIHEGTVL QAVRTCYNILASKNLINQTTA KATLTQ
21149	51517	A	21276	46	214	KLRLTTTSVYAIPNRRRYDGFK LVQSCIFI*NFRS*DLRPPQYMPF LIEGGMTVSNSCRAAFSFTSLC RHFRSEAWLQNTNTGGFGSTF
21150	51518	A	21277	306	616	
21151	51519	B	21278	47	927	

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21152	51520	A	21279	660	890	GGKITASGSPVPRPSGA*ALPSG RCSTPRTSSCPRLPEPPGLPSP PSAPANTTPDDSHAAP*GTRAH THRPPHT/PTAPSRPPTSPPVAT RTAPKAPQ/HHP/PTSCPTQRPT DSPSVHEPSQPLATQHSTQPI*P VIVTQ
21153	51521	A	21280	3	213	
21154	51522	A	21281	349	2616	TTAMAHRKLESVSGSMLDHRV RPGVPHTSQPESEDMELPLEG YVPEGLELAALRPESPAPEEQE CHNHSPDGDSSSDYVNNTSEEE DYDEGLPEEEEGITYYIRYCPED DSYLEGMDCNGEYLAHSAHP VDTDECQEA VEEWTD SAGPHP HGHEAEGSQDYPDRQLPIPEDE PSVLEAHDQEEDGHYCASKEG YQDYYP EEANGNTGASPYRLR RGDGDLEDQEEDIDQIVAEIKM SLSMTSITSASEASPEHGPEPGP EDSVEACPPIKASCSPSRHEARP KSLNLLPEAKHPGDPQRGFKPK TRTPEERLKW PHEQVCNGLEQP RKQQRSDLNGPVDNNIPKTK KVASFPSLVAVPGPCEPKNLID GIIFAANYLGSTQLLSERNPSK NIRMMQAQEAVSRVKRMQKA AKIKKKANSEGDAQTLTEVDLF ISTQRIKVLNADTQETMMDHAL RTISYIADIGNIVVLMARRRMPR SASQDCIETTPGAQEGKKQYK MICHVFESEDAQLIAQSIGQAFS VAYQEFLRANGINPEDLSQKEY SDIINTQEMYNDLIHFSNSEN CKELQLEKHKGEILGVVVVESG WGSILPTVILANMMNGGPAAR SG\KLSIGDQIMSINGTSLVGLPL ATCQGIIKGLK*PDHR*SFNIVS CPPV/TPRFLYSKRPDLYQLGF SVQNGIICSLMRGGIAERGGVR



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21155	51523	A	21282	20	771	TTPNKQHMMQTRAGSAWYLR SRGCSQGAPQKASSGSGGSSW NRSVATVPGIVLGWRRPELLSE RGCAEARGAGVAGRQRLQLTG VQGKSVVRGRLLGRREWCR GGGAAPRPTAGTPVPRRPGR AGPEEGEGAGAGARAPEPRP HALSPPAFGADGQLRPLLLTS LRAHHPGRGGLLLTSPGTHQPR RGRQGTTPPASPSA/PEEGALP GVLPL*PPSPSP/SSSPRPHPG GGALAVTRRTAAA
21156	51524	A	21283	1615	1985	LGSTRQAAPGQLRGHQAPAPN SDATAGQGRCRSAD*GWGSR EQI*ALPLPSGPAPLLPPLL PVPPSPPPSPSPSPPLPPGPP* PPLTFSVVTGGGLWCPPHRKSL NPTSKGVNEY
21157	51525	A	21284	3	501	
21158	51526	A	21285	1	2646	
21159	51527	A	21286	31	319	VIQDLHVPPREESAEQVDDPPE PVY\RT*RGSPGLHRAPLQPPF PARCGRRTTRAPGAPTTTTQT RELPPGSRPLRLPRVPPAQPPPL PRWTAT
21160	51528	A	21287	3	147	
21161	51529	A	21288	20	600	PVTPRRILPWALSVSPALPLP* PHPPAGLVMSARTSRCSTPTTS LRSSG*GWRTPTGSHTSTIQRT LFDGSCPRSLSLPLEASINPARM VTPQPRPALQRRRSQSWML GAGRKSLLPQLL*GPRPWTRQG CSIAPRRQTRESGSGRSTGVPPG LCWRVAS*HSSRTQRPRLQAA* GSLPSFPPLSTQWS

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21162	51530	A	21289	383	1800	TCSTQTSLRNPPRRPRAASLPQT CSRSRPSRAHSLTGRPPRFQSQ MPSRSPCC*IC*NIRIDLCGS\TH SDGRFELVFSGKKLALRASSQD EAEDWLDVRREALQKVRPQQE DEWVNVQYPDQPEEPPEAPQG CLSPDLLSEPAALQGTQFDWS SAQVPEPDAIKESLLYLYMDRT WMPYIFSLSLEALKCFRIKNE KMLSDSHGVETIRDILPDTSLG GPSFFKIITAKAVLKLQAGNAE EAALWRDLVRKVLASYLETAE EAVTLGGSLDENCQEEKNNTK HTTARNAFEENDFMENNTMPE GTISENTNYNHPPEADSAGTAF NLRPTVKQTETKWEYNNVGTD LSPEPKSFNYPLLSSPGDQFEIQ LTQQLQSLIPNNNVKRLIAHVIR TLKMDCSGTHVQVTCAKLISRT GHLMKLLSGQQEVKASKIEWD TDQWKIENYINESTEASQSEKE KSLEAASGTQDGVHVQEP RPQ APSPDLQQPVESTSSQQPSSTV SETAREVGQGNGLQKAQAHDG AGLKL VVSSPTSPQQVCKLWW SAGLHTPPPVTS LGTVGLQGPQ QRFPKFPDFFHPLEISCGKVA
21163	51531	A	21290	2	667	
21164	51532	A	21291	84	377	RMGKHCFENLLFRDGKAQRAC MGYTVCHSHIVGSGQKCWPA WPQVNLQPSRHQQVCCSLPRC AKCKTVFHQSCQAVVKKGCPR CAR* RKYQQQNVFA
21165	51533	A	21292	2	1168	FVLPVVSGRETASSARRLRGCR SREPPSPRSSLRLVSCDSLREQL REWRCFQWWRMDWTPRLPSR HIISELEHLTFVNMDVGRCAW LRLALNNGLMCEYLKLLQEQ ARLREYYQPTALLRDAEEGEFL LSFLQGLMSLSFELSYKSAILNE WTLTPLALSGLCPLSELDPLSTS GAELQRKESLDSISHSSGSEDIE VHHSCHKIRRNQKPTASSLSLD TASSQLSCSLNSDSLQENG KSPDHCEEPMSYDSDLGTANA EDSDQSLQEVLLFESKAQAASG TQDGVHVQEPHPQAPSPLDLQ QPVESTSGQQPSSTVSETAREV GQGNGLQKAQAHDGAGLKL VSSPTSPNISSMIQSTRPVHFCIV STKHCTWEKVGMD

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21166	51534	A	21293	263	813	
21167	51535	A	21294	130	1094	NQPHRTKGCPNSSTECKNGSLT CDFMQVPILEMGKLRPEGERRV QDRDSNPSLSPSAGLFQARWS* PPRPSFLLPAGKRRGCDGGGRG GGRVRAGGAPLRVHRQGRAPP QSTEHWWHVRRKPGGRPFYLP AQYVRELPAIGNPAADAPPGPP IGTRSP*AARLRLPVRERGC GSG PQRPPSGAPRRGQLPVRPCAAR RREP/RAA*AWRPACPPACTCGP\A GARAARAVPGRPDARRRLASR RQPRKQRQLQGLQRSGLLGVP AAPVAQRLRERLRGHPGGTRP AAVG DREAGTTPGA EAGRLAE DSARREPGLEENHSAQRR A
21168	51536	A	21295	2	3676	
21169	51537	A	21296	432	3453	DLAGEVLLCGGAADYGT LGFS SPAVQEANRGALCSSIERGHIIS ELEHLTFVNTDVGRCAWLRL ALNDGLMECYLKLLQE QARL HEYYQPTALLRDAEEGEFLLSF LQGLTSLSFELSYKSAILNEWTL TPLALSGLCPLSEL DPLSTSGAE LQRKESLDSISHSSGSEDIEVHH SGHKIRRNQKLTASSLSLDTASS SQLSCSLNSDSCLLQENGSKSP DHCEEPMSCDSDLGTANAEDS DRSLQEVLLEFS
21170	51538	A	21297	64	2996	LCPPAQPAASQPQVELPAGWPQ PHALPLPHDHRAQHLLGCAHP GRAKPELQQHHDCAAAQIPHI PVRQPYQHPDPPLCQPRRPACP ALPIHGRQLLLQEPLQAGTGGG PGCPPWPQGPHPPVTQVQQPHC GAPQPAFQPGVSAVVLRGRIVK LAPEDLANLTALRVLDVGGNC RRCDHAPNPCMECPRHFPQLHP DTFSLSRLEGLVLKDSSLSWL NASWFRGLGNLRVLDLSENFL YKCITKTKAFQGLTQL
21171	51539	A	21298	1	320	PVRTPPIPAFSPLKTLRIMSLHQF LLEPNCGRPQLCRGTMARKPAP RKH*KHISRQCRVVLFEYKIGES VGFFKAVIFL FVFLRFHSILDQS FSLSSLLWKIVTLT
21172	51540	A	21299	1	443	
21173	51541	A	21300	1	1059	

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21174	51542	A	21301	116	1559	PRTARPSCAHARTVRAVATRRR RVHFRDLAAPSGLSVLRPRPT EPVRVDCPESANPPVRARPDSP DPRMFELLAASDARINGPFCAP RVLLAPLLGAFVTVSKIVSKIAL SPK*SRRSHLLRRNGSQWVKV HVELKEHNG\HITGID\WAPKSD RICH\CLGADRNCMLVWS\QK\D GVWKPMPG*FLRNLIGGGNFL* KWVPPRRTKFGCGSGARLISV CYFESENDWWVSKHIKKPIRST VLSLDWHPNNVLLAAGSCDFK CRVFSAYIKEVDEKPASTPWGS KMPFGQ\LMSEFGG\SGTG\GW VHGVSFSA\SG\DRLGWGSATD STVSVSA*CLQKVVQVSTLKTAE FLAAP*VVSFVSREPASGLPAH DC\CPMLFNYG*PRAALTFRLP KLDIPK\QSIQRNMSAHGNAFG NM\DKRATTED\RN\TAL\ETLH\ QNSITQVLYLLRWQDQ\CRKF CT\TGNDGEPWTIWDFQDPRSL PSQGLRIM

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21175	51543	A	21302	1	2223	MKHYTRVQSSISPPAERQETHA WASPAVTSLESAACHELQEAD LSELSYPRIVSSSSLQQYVAQG GSFPCFGMPWNFISGGAESTNA VISFANATTAVPMAVLSRRESS LANNPGVVNYSALPENENVGP EMPERPANSSKNSTETANYPTL MGNYNGQNTASLSVFIPPYFAE KIILTEMPGTTETNVENNSQTV YYPALSGNTSAPYPASSYLPITS NFVLERVAEMPETAGTNVKNN TQTVNYPPSSGRGRSQGNASLS LSIPPKFGIERHLGCFLVLAIRSK AAMNIIYHIGFV*TQAFISLRY/ MPKSAVAGSYGNALQNVLHIE MLFKTESGPQMSYGTMSYSTE MKNNCDQDDASASACLTDPFA LLPLNILVKVDTNTENSVNTMN RSTLLDSGQDSSSSSVCIPP YGYLGDPKRNVRVLKIHLAV QNMAKPKQAACYLVRIIFSKEI LISSVDIHLKDSQSLDPNKMA ALREYLATTFPTCDLHEHGKD WQDCISGINSMIYCLCSEGKSTP KTVRKNNKRTNRVASASADR DQRGRDGGEGCSWMFQPMNN SKMREKRNLPNSNAIPEGMRE PSTDNPEEPGEAWSYFGRPWRN IRMPCSVLTLAKTKSCASLSAR YLIQKLFTKDVLVQSNVYGNL KHGLCALDPNKISALREFLQEN YPICDLSENGRDWKSCVTSINS
21176	51544	A	21303	1	297	
21177	51545	A	21304	1	162	
21178	51546	A	21305	11	212	KGKNCVAIAADRRFGIQAQMV TTDFQKIFP/MGAQRLKFRLNL YELKEGRQIKPYTLMSMVANL LYEK
21179	51547	A	21306	37	554	SSIKFGRSNPDYWIALPSRNLDP AIMSIMSYNGGAVMAMKGKN CVAIAADRRFGIQAQMVTRDF* KFFPMG*PACTPGMAGFAIDVQ TVAQRLKFRLNLYELKEGRQIK PYTLMSMVANLLYEK/RDPDHL FETISQAMLNAVDRDAVSGMG VIVHIIKDKITRTLKARMD

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21180	51548	A	21307	51	741	YTAIMSIMSYPNGGAVMAMKGNKNCVAIAADRRFGIQAARLLTTNFQKIFPMGDRLYIGLGGASPLDVQTS/VAQRLKFRAEPVMS*REGRQIKPYTLH*AMGGQPSLL*EKVFGPLTYTEVPVHLPGLGPERPFKALSICFSKTLIRVGPMGDLNDFCGSSGNLAPNKMYGMCESLWGGPTWDPDHLF*KPFSQGHG*MLWDRDGS/VSGMGSSLFHIEKDK\MPRTLKARMD
21181	51549	B	21308	150	404	
21182	51550	A	21309	199	395	
21183	51551	A	21310	100	182	SFLFWIKR*SFPDALYFSSKSGACSCN
21184	51552	A	21311	203	289	KCLALDIALATRRSAI*FPSVKGPGRGV
21185	51553	B	21312	166	411	
21186	51554	A	21313	232	317	KCPALDIAVATRRSAI*FPAVKGPGRGV
21187	51555	A	21314	129	278	FYSSVSGVSSKDDRRFGCSGYSAAVISFRQC*SQLPGCSATYQRESTFS
21188	51556	A	21315	789	962	
21189	51557	A	21316	477	599	
21190	51558	A	21317	86	577	ATEPLAPSERREVSIPLLVAPLPPPPRPPVPSRTRTRPWRRP*ACFPMTLAASCGPTRSPWPSQQPIPPAPVG/PGNIKTLDAYEFAVDVRDFSPEDIIVTTSNNHIEVRAEKLAADGTVMNTFAHKCQLPEDVDPTAVTSALRKDGSLTIRAR RDPHTEHV
21191	51559	B	21318	312	466	
21192	51560	A	21319	886	1338	GFWQVIRALRGGEVHREGTSA PGRHRRRCGCRSAWNRCTACSHVWPPRQMWPG/PDVAMKTGNIKTLDAYEFAVDVRDFSPE DIIIVTTSNNHIEVRA/REA/ERPD GTVMNTFAHKCQLPEDVDPTS VTSALREDGSLTIRAWRHPHTEHVQ
21193	51561	A	21320	3	605	KKLTPVVRSRVERDPRVRRGLR PHPVLSSLRPPGQGAPSVDEPQ NLFHLPSEKIPFLFLLLLLFTPP PRPPVLSRPRTRPWRRP*ACFPMTLAAICGPTRSPWPSQPAPV/VAGNIKTLDAYEFVVDVRDFSPE DIIIVTTSNNHIEVRPEKLAADG TVMNTFAQQCQLPEDVDPTSVTSALREDGSLTIRARGHPHTEH

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21194	51562	A	21321	3	450	SSAAEVQEPRGAPGSPSIPSASR PGPAPRPASLPPSQMQAAAALPE EIRWLLEDAEEFLAEGLRNENL SAVARDHRDHILRGFQQIKA\G GDIGQDSSDDNHSCTLGLSLTY DAPFLSDYQDEGMEDIVKGAQ ELDNVIKQGYLEKKS*DH
21195	51563	A	21322	1	399	IGQDSSDDNHSCTLGLSLTSDA PFLSDYQD/EG*VHQISDHWEK LRTWC*VYCDKGMEDIVKGAQ ELDNVIKQGYLEKKS*DHSSFFG SEWQKRWCVVSRGLFYFYANE KSKQPKGTFLIKGYSVRMAPHL RRDS
21196	51564	A	21323	3	1189	RLPARPPDQGPRVPPLSRPAK CRLAVLP EEIRWLLEDAEEFLA EGLRNENLSAVARDHRDHILRG FQQIKARYYWDFQPQGGDIGQ DSSDDNHSCTLGLSLTSDAPFL SDYHDEGMEDIV*GAQELDNVI KQGYLEKKS*DHSSFFGSEWQK RWCVVSRGLFYFYANEKSKQP KGTFLIKGYGVRMAPHLRRDS KKESCFELTSQDRRSYEFTATSP AEARDWVDQISFLLKDLSSLTIP YEEDEEEEEEKEETYDDIDGFDS PSCGSQCRPTILPGSVGIKEPTTE KEEEDIYEVLPDEEHDLEEDS GTRRKGV DYASY YQGLWDC\ YGDQPDDL\QRGDLILFLSKE YNMYGWWVGELNSLVG\IVPK EYLHHLPLKWKERWKPREIYFF
21197	51565	A	21324	47	225	NSHHVRGRPRCADSSSPSGDRG QPEAQPADSSAPEHAQEPGRA AVKRPDL*SHMTRRP

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21198	51566	A	21325	66	725	AILIILLSSEGLWSSDQHRLVGV QDSPPQGSGLGCFYSAMATSEQS VCQARASVMVYDDTSKKWVPI KPG\QQGFSRINIYHNTVSNTFR VVGVKLQDQQ\VVINYSIVKGL KYNQATPTFHQWRDARQVYG\ LNFASKEEATTFSNAMLFALNI MNSQEGGPSSQRQVQNGPSPD EMDIQRRQVMEQHQQQRQEFL ERRTSATGPILPPGHPSSAASAP VSCSGPPPPPPPPVPPPPTGA\TP PPPPPL\PAGGAQGSSHDESFHV QDWPLAISWGPSLRRVPNGPED ASGGSSPSGTSKSDANRASSGG GGGGLMEEMNKLLAKRRKAA SQSDKPAEKKEDESQMEDPSTS PSPGTRAASQPPNSSK\AGRKP WERSNSRGYFCVLDVQNPAL WPKSPES*EPPSVSSL/ISRMKPA GS\SDMA\LDAFDLDRMKQEI LEEVVRELHKGERKEIID\AIRQ EA*SGISRKKNLGHRHPPTRTS FICSQRPRLM
21199	51567	A	21326	301	390	
21200	51568	A	21327	72	415	
21201	51569	A	21328	395	697	RVMSPVHVNTICSPHPHSDGDV IVPIVLSNERYHWP\VLGWVGG VDCDEFFRVVLGEARLHLDGV AHQH*TKEGTISNLFQVATSVSH LVEVVPQKLSWVI
21202	51570	A	21329	36	399	VEILTSKRAGDWFKEELRLLGG LDHIVDKVKECVDHLSRDEDEE KLVASLWGAQRCLRVLSVTV HNPENQSYLIAKDSQLIVSSA KALQHCEELI*QYNRAVDTLCL ADCKPLPHPTVL
21203	51571	A	21330	1	177	
21204	51572	C	21331	198	350	
21205	51573	A	21332	113	228	
21206	51574	A	21333	1	466	



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21207	51575	A	21334	1	4133	ASGCWRKEVGAGSANGVEMV QGPVQTPALTIHRRKRRRRRRR RPSGGTQQALLPAPAVAASES* ARARPAALEAGREVAGPP\SCPP NRASYLPKAESLASLGSHPAL LSRARVPRPPAGRKERE\RRKRP \VAKAPARLARGEYETG\VKMTS RFAKTYSRKGGNGSSKFDEVFS NKRTTLSTKWGETTFMAKLGG KRPNFKPDIQEIPKKPKVEEST GDPFGFDSDDDESLPVSSKNLAQ VKCSSYSESSEA
21208	51576	A	21335	3	221	
21209	51577	A	21336	1	580	
21210	51578	A	21337	2	1095	ARGNRPPPPRTERGVLESRTS RHRAPRLPPAMPAPRALAA AA\PASGKAKLTHPGKAILAGG LRGG\IQCMTFPT EYVKTQLQL \DERSHPPRYRGIGDFVRQTVRS HGV\GLYRGLSSLLYGSIPKAA \VRFGMFE\FLSNHMRDA\QGRL DSTRGLLC\SLGAGRGRP*VV VCPMETIKVKFIHDQTSNPKY RGFFHGVREIVREQGL\KGT YQ GLTAT\VLKQGSNQAI\RF\FVM TSLRQWYPRGTTPNKAHEPF*I TWGSFGA\IASASQVSFGNTPLD VI\KTRMPGPWRPHK\YR\NTWD \CGL\QILKKGGGSRAFYKGTV PPLGPGLAWDVA\VFV\IYDEV G*SCFNKVWKNGIKA
21211	51579	A	21338	3	375	TAGDSGAEDGPASRVSQMPTLP PPMPWNLPAGVDCTTSGVLAL TALFFKMEEANLASRAKAQELI QATNQILSHRKPPSSLGMTAP VPTSLGLPPGPSSYLLSGSPPLG GC\GSTPPTPPGLAA
21212	51580	A	21339	51	3789	GRGHPHGGGELLPASPRGSPEG DQPGQGDPEEKEGRVVPRGGA PDVPSAHALVPEPQTVLGLHQR VTAQPGRHGAH*LHGDR LHSG RPQRPTHTGWAPCLPYPTLGSG *RRHHGNPAGTPRSLLFPFPEK ELEAPPPAPRFDIYDPFHPTDEA YSPPPAPEQKYDPFEPTGSNPSS SAGTPSPEEEEEEEEEEEEEEED EEEEEGLSQSISRISETLAGIYDD NSLSQDFPGDESPRPAQPTQP TPAPGTPPQ
21213	51581	A	21340	286	393	
21214	51582	A	21341	64	610	

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21215	51583	A	21342	1	4433	MWAQLLLGLMLALSPAIAEELP NYLVTLPARLNFPSVQKVCLDL SPGYSDVKFTVTLETDKDTQKL LEYSGLKKRHLHCISFLVPPAG GTEEVATIRVSGVGNISFEEK KKVLIQRQNGTFTVQTDKPLYT PGQQVYFRIVTMDSNFVVPND KYSMVELQDPNSNRIAQWLEV VPEQGIVDLFQLAPEAMLGTY TVAVAEGKTFGTFSVEEYVLSP FLLLLSSVLPKFKVEVVEPKELS TVQESFLVKGGL*\
21216	51584	A	21343	3	522	ELRTWIEGLTGLSVGPDFQKGL KDGTILCTLMNKLQPGSVPKIN RSMQNWHQLENLSNFIKAMVS YGMNPVDLFEANDLFESGNMT QVQVSLLAGKMGTNKCASQ SGMTAYGTRRHLYDPKNHILPP MDHSTISLQMGTNKCASQVG MTAPGTRRHIYDTKLGTDKCD
21217	51585	A	21344	1	1230	MHQEDLRAWYLDLGLPSHQNE TTDVSVVYERFSLDATYPKQA KQWDFPFLRVSTAQPTAWKCQ RAPSPYTHQDTALIPSPTARWL SPEKEPKQGEVGEKSLLPDPTLP LTDPRLTGSTEQKKDLAAGPVG SALRRRPPAVSSTQFNKGPSYR LLADVQNRLLPKYDSQKEAEL RSWIKGFTGLSIRPDFQKGLKD GIILCTLVNKLQPGSVPKINASV *NWH*LENLSNFLKAMVSYGM /NPVDLFEANDLFESGNMQVR VSLLAGKAKTKGLRSGVDIR DKYSKKQNFDDTTMKASQCVI RLQITNKCASQSGMTAYGTRR HLYDPKNRILPPMDNSTISLQM GTNKYASQVGMTAPGTQRHIY DTNLGIDKCENSSMSLKMGYT QVANHSGQVFGLGRQIYEPKY
21218	51586	A	21345	2	389	

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21219	51587	A	21346	1	1113	MHQEDLRAWYLDLGLPSHQN AQPTAWKCQRAPSPYTHQDMA LIPSPTARWLSPEKEPKQGEVG EKSLLPDPTLPLTDPRLTGSTEQ AHAEGLAALMSALRVSHLQGR GGVVTLVDSQLGVIAVSSTQFN KGPSYRLLADVQNRLLPKYDS QKEAELRSWIKGFTGLSIRPDFQ KGLKDGIICTLVNKLQPGSVP KIN\ASV*NWH*LENLSNFLKA MVSYGM/NPVDLFEANNLFESG NNMQVRVSLALAGKAKTKGL RSGVDIRDKYSEKQNFDDTTM KASQCVIRLQITNKASQSGMT AYGTRRHLYDPKNRILPPMDNS TISLQMGTNKCASQVGMTAPG TQRHIYDTKLGDCKENSMSL
21220	51588	A	21347	353	1260	SCWCLKLALAVSST/QFNKGPS YRLLADVQNRLLFKYDSQKEA ELRSWIKGFTGLSIRPDFQKGLK DGIICTLVNKLQPGSVPKINAS V*NWHQLENLSNLIKAMVSYG M/NPVDLFEANDLFESGNNMQ VRVSLALAGKAKTKGLQSGV DIRDKYSEKQNFDDTTMKARL CVIRLQITNKASQSGMTAYVT RRHLYDPKNRILPPMDNSTISLR MGTNKCASQVGMTAPGNQWH IYDTKLGDCKENSMSLKMGY TQVANHSRQVFGLGRQIYEPKY QPGGPVAHGAPSAGNCPGPGE
21221	51589	A	21348	3	530	
21222	51590	A	21349	1	853	MPESWLAAPFPYGDIIKVVGL QLKEGLHQNLTMQDSIQIFDFQ LPGLLRPSSVLWTLKPYHTAGL ASDRDSYKGILACMPMFGSRR SPLRDIKSHQADLELEVKNSLD TIHRLESELKKQSKIQSQMKVE KAHLEEEIAELKKSQAQDKAKL LEMQESIKDLSAIRADLANKLA EEERAKKTSAGAFGP/LIAQAN SRDEGTATITQLELERDVHQRE LKDLTSSLQSVKTKHEQNIQEL MKHFKKEKSEAENHIRTCLKVPL LNYPDDTEGIFLVAHEVNKA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21223	51591	A	21350	1	652	NTSLINTKKKKLETDISQIQGEME DIIQEARNAEKAKKAITDAAM MAEELKKEQDTSALERMKKN LEQTVKDLQHLDEAEQLALK GGKKQIQKLEARVRELEGEVES EQKRNVEAVKGLRKHVKVE LTYQTEEDRKNILRL\QDL\VDK LQAKVKS YKRQAEAEQSNV NLSKFRRJQHELEED\RADIA ESQVNKL RVKSREVHTKIIEE
21224	51592	A	21351	21	5868	PAAMSSDSEMAIFGEAAPFLRK SERERIEAQNKPDAKTSVFVV DPKESFVKATVQSREGGKVTA KTEAGATVTVKDDQVFPMPNP KYDKIEDMAMMTHLHEPAVLV NLKERYAAWMIYTYSGLFCVT VNPYKWLPVYNAEVVTAYRG KKRQEAPPHIFSISDNAYQFML TDRENQSILITGESGAGKTVNT KRVIQYFATIAVTGEKKKEEPA SGKMQGTLEDQIISANPLLEAF GNAKTVRNDNSSRFGKFIR
21225	51593	A	21352	54	399	
21226	51594	A	21353	441	1585	VPPMGGGPPFVGPVGFPGDRS HLDSPEAREAMFLRRAAVAPQ RAPILRPAFVPHVLQRADSALSS AAAGPRPMALRPPHQALVGPP LPGPPGPPMMLPPMARAPGPPL GSMAALRPPLEEPAAPRELGLG LGLGLKEKEEAVVAAAAGLEE ASAAVAVGAGGAPAGLAVIGP\ SLPLALAMPLPEPEPLPLEVV RGLLPP\LRITELLSLRPRPRPPR\ PEPPPGLMALEVPEPLGEDKKK GKPGEIEHRCIATA/AQGASWE DPPTCWKWD AE*LSRVFCGDL G\NEVND*HLGHAASARFPIPSL KAKVIR*QSAQARPKGYG\FVS FKDP\SDYVRP\MREMNGKYVV LAPPIKLRKSMWKDRNL DVFR KKQKEKKKLGLR

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21227	51595	A	21354	1	1122	MPGGKIGFLIEKGATEQSSTGN DFDELREEGGRRSNYSELQEDI QTKGKEVENFEKNLEECVTTIS NTEKCVKELMELKTKARELRE ECRSFRSQCNQLEERVPA MKDE MNEMKREGKFREKRIRNEQS LQEIWDYVKRPNLPLIGVPESD RENGTKLENTLRDIIQENFPSLT RRGQPF RIMENTENAPKDNLLE KEQLPRHNNCLELTQEEPAWD LQFDLLEDLNDISSALKHHEEKN LISLLPQRGADYLSFRSHFQKNF VCVENCSLQERTVTGT VKVKN VSFEKKVQIRITFDSWKNYTDV DCVYMKNVYGGTSDTFSFAI GLPPVIPTEQKIEFCISYHANGQ IFWDNK*WGRKYKNCVIVQW
21228	51596	A	21355	71	1124	GPPPLCLMSCTRMIVLDP RPL TSSVMPVDVAMRLCLAHSPPV KSFLGPYDEFQRRHFVNKLKPL KSCLNIHKAKSQNDWKCSHN QAKKR VVFADSKGLSLTAIHV FSDLPEQPAWDLQFDLLDLNDI SS\ALKHHEEKNLILDFP\QPST DYLASFRSHFQKINFVCLAENCSL QERTVTGT VKVKNVEF*GRKF QIRYHFSDSWEKLTLDVDCVY MENVY/GVGTGSDTFSFAIDLPP VIPTEQKIEFCISYHANGQVFW DNNDGQ\NYWIVHVQWKPDG VQTQMAPQDCAFHQTSPKTEL ESTIFGSPRLASGLFPEWQSWG RMENLRLLCDELSNNVTGLDLS YSPMQS
21229	51597	C	21356	204	273	
21230	51598	B	21357	1	1062	
21231	51599	A	21358	1	397	QRPI*PTKPIGQRVSKGHQPTR H\DF TQF\LA AHETISRLVG FSA GQV\QYLDLIKKADPSKLFNEER LIDKTKVTY LKWLPESESLFLA SHASGHLYLYNVSHPCASAPPQ YSLLKQGE GFSVYAAKYNDLF

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21232	51600	A	21359	71	1736	FRTSLKDVWHTPLTPFLPPLKSI DLNKPIDKRIYKGTQPTCHDFN QFTAATETISLLFGSFSRRTWA WCGPAV*AGPCPTAFLGTLRLI DKTKVITYLKWLPESESLFLASH ASGHLYLYNVSHPCASAPPQYS LLKQ\AWGFSFYAAKSKAPRNP LAKWAVGEGPLNEFAFSPDGR HLACVSQDGCLRVFHFDSMLL RGLMKSYFGGLLCVCWSPDGR YVVTGGEDDLVTVWSFTEGRV VARGHGHKSWVNAVAFDSLY TTRAEEAATAAGADGERSGEE EEEEPEAAGTGSAGGAPLSPLP KAGSITYRFGSAGQDTQFCLW DLTEDVLYPHPLARTRLPGT PGTTPPAASSSRGGEPPGPLPR SLSRNSLPHPAGGGKAGGPGV AAEPGTPFSIGRFATLTLQERRD RGAEKEHKRYHSLGNISRGGSG GSGSGGEKPSGPVPRSRLDPAK VLGTALCPRIHEVPLLEPLVCK KIAQERLTVLLFLEDCHIITACQE GLICTWPRPGKAFTDEETEAQT GEGSWPRSPSKSVVEGISSQPG
21233	51601	A	21360	2	467	LMQ/NWDAAMEDLTRLKETID NNSVSSPLQSLQRTWLHWSL FVFFNHPKGRDNIIDFLYQPH MLADKLNMTPEEAERWIVNLI RNARLDAKIDSKLGHVVMGNN AVSPYQQVIEKTKSLSFRSQML AMNIEKKLNQNSRSEAPNWAT QDSGFY
21234	51602	B	21361	1	909	
21235	51603	A	21362	3	3617	YWKERPTQKVIPRATENHGLKS YLQKTKLSIDEAAFLLPDNLK SELLELLTHWLQVGVPMTPSLG SINLLGWLTELRETHYICWFIV KETTRDTDEEMCRTEPALACSI SHYCDDGCIQMLNTPETLQCSA KDSKHFIKESIPGENRPPSDT GKTVKFLSLNIFNLQLAESTDA EQRANCILRCFLTETTLNYQKIL SVRPGTKLATASHVSGLGQLTP PFGLAQHILIRPHAFLAPKDPLTS FTERNRSRG

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21236	51604	A	21363	75	2141	GPRLGLTTMWHEARKLGRRRLR GLLFDSRKRAERRREYYEKIKK DPAQFLQVHGRACKVHLDSA VALAAESPVNMMPWQGDNTN MIDRFDVRAHL\DHIPDYTPPLA HHHFSQNQESDER\KCNERYR GLVQNDFAGISEEQCLYQIYIDE LYGGLQRPSEDEKKKLAEKKA SIGYTYEDSTVAEVEKAAEKPE EEESAAEEESNSDEDEVIPDIDV EVDVDEL\NQE\QVAD\LNKQATT YGMADGDFVRMLRKDKKEEAE AIKHAKALEEEKAMYSRRSR RQRREFREKRLRGRKISPPSYAR RDSPTYDPYKRSPSESSSRSR SRSPTPGREEKITFITSFGGSDEE AAAAAAAAAASGVTTGKPPAP PQGGPAPGRNASARRRSSSSSS SSSASRTSSSRSSSRSSSRSRRG GYRSRGRHARSRSRWSRSR SRRYSRSRSGRRHSGGSRDG HRYRSRPARGGYGPRRSR SHSGDRYRRGGRGLRHSSSR RSSWSLSPSRSLTRSRSHSPSP SQSRSRSRSPSPSPAREKL TRPAASPAVGEKLLKTEPAAG KETGAAKV\PKLTPQEKLLRM QKPL\NRQFKADKKAQRKR*S QAEHERQERKDEA\RAMARKIG MKERER\REKEREWERQYSRQ SRSP\RDYSREYSSSRSSSR SRSPHYRH
21237	51605	A	21364	1	609	
21238	51606	A	21365	1	1227	
21239	51607	A	21366	1	1626	
21240	51608	A	21367	370	4388	GFIWNRITPTEDGQTRELQNH GLSAPVPRGRKGKKVKTQTSSF DIQKAEWLRYNPEQLQDEG YKKHIKHHCNKVLLRVRLYY LKQEVIGNECQKVFDGVDASDI DVWVPEPDHSEVPAEWDFD ADKSLIGVFKHGYEKYNTIRA DPALCFLERVGKPDEKAVAAE QRANDYMDGDVEDPEYKPAPA IFKDDIEDDVSSPGDLVIADGDG QLMEGDKVYWPQTQSALTTRLR RLITAYQRTNKNRQIQIQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met bod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21241	51609	A	21368	1	530	AEADAI IQMVREGQRRARRQQQ AATSESSQSEASVRREESPM DV DQPSPSAQDTQSIASDGT PQGE KEKEERPPPELPLLSEQLALDEL WDM LG ECLKEEESH DQH AVL ETHRTVLNQILRQSTTHLADGP FAVLVDYIRVLD FDKRKYFR QELERLDEGLRKEDMAVHVRR DHVF
21242	51610	A	21369	1	217	
21243	51611	A	21370	274	599	PVSKESRVAPLCDFCLPFIQSES SQSEASVRREESPM DV DQPSPS AQDTQSIASDGT PQGEKEKEER PPPEL/LLSEQLSLDELWDM LG E CLKEEESH DQH AVLVLQPA
21244	51612	A	21371	2	731	TPTPTAPTPTVTSAPALVAATAI STIVVAASTTVTPTTATTTVSI SPTTKGSKSPAKVSDGGSSTD FKMVSSGLTENQLQLSVEVLTS HSCSEEGLEDAANVLLQLSRGD SGTRDTVLKLLNGARHLGYT LCKQIGTLLAELREYNLEQQR AQ CETLSPDGLPEEQPQTTLK GKMQRFSGLGSASSIQA AVR QLEAEADAI IQMSESSQSEASVR REESPM DV DQPSPSAQDTQSI A
21245	51613	A	21372	208	423	LYVKPTAPPK*AL*SEGLE*MSP QCLWQGLQQGKAQKKLLEVP NKLTQTIN*PANVLILA*GGSS YRPPHK



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21246	51614	A	21373	1	2002	MPQLPGISLPEGVDPSFLAALPD DIRREVLQNQLGIRPPTRTAPST NSSAPAVVGNPGVTEVSPEFLA ALPPAIQEEVLAQQTAEQQRPE LAQNASSDTLMDPVTLIQTLPS DLRRSVLEDMEDSVLAVMPPDI AAEAQALRREQEARQRQLMHE RLFGHSSTSALSAILRSPAFTSR LSGNRGVQYTRLAVQRGGTFQ MGGSSSH\NRPSGSINVDTLRL RGRELLDHEALSCELVLFFVDE PKLNTSRLHRVLRNL CYHAQT RHWVIRSLLSILQRSSESELCIET PKLTTSEEKGKKSSKSCGSSSHE NRPLDLLHKMESKSSNQLSW/L SSVSM DAALGFRITNIFIQRSG GRKHTEKHASGGSTVHIHPQA APVVCRHVLDTLIQLAKVFPSH FTQQRTKETNCESDRERGNKA CSPCSSQSSSSGICTDFWDL LVK LDNMNVS RKGKNSVKSVPVSA GENKVSEAQANS GSGASSTTTA TSTTSTTTTAASTTPTPTAPT VTSAPALVAATAISTIVVAASTT VTTPTTATTTVSISPTTKGSKSP AKVSDGGSSSTDFKMVSSGLTE NQLQLSVEVLTSHSCSEEGLED AANVLLQLSRRPARMLAMHW PSLYNVETEKTLALPNLIALQTS PFASGVIAKSSTDRLINQCAPV WRWR
21247	51615	A	21374	1	6384	MVSPEPKTGHSIRNWLDLKD PILHAYSNLPSSPAVDLAIHSSK EGRMDWTEGQVTGPVVRSAAT SGAGSTTSGVVSGSLGSREINYI LRVLGPAACRNPDIFTEVANCC IRIALPAPRGSGTNGSSRIPRES APEMATAESLVEELSEDAAGG ASPGVELPALGCSELPAAEVSP TASSKNLETICEYAYCMAMLPE TGLDPYPKRGFLDLTQERIWTD IPPSPGNIPTTHPLMVRHADHSS LTLGSGSSTT
21248	51616	A	21375	1	1356	
21249	51617	A	21376	80	608	

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21250	51618	A	21377	298	1374	GRGDWPDILNLTQATASWTPR WCCLRKPV EAPSGGATEERTLS LTS LGLSMPADPCEGGARSCLV TESARGGLQNGQSV DVEETLPS EPENGALLRSERYQGPRRRACS ETLAESRTAVLQQRRAAQLPG GPAAAGEQRASPSKARLKEFLQ QCDREDLVELALPQLAQVVTV YEFLLMKVAESLGITEFLRKKEI HPDNLGPKHLSRDM DGEQLEG ASSEKREREA AEEGLASVKRP RREALSNDTTESLAANSRGRE KPRPLHALAAGTIVSQEEDIVT VTD/GRGACLRMGPLEGVPLEA VESVVTVEPEPSQ*NGVRY*NS SDFIQRRSMASNVYFSNVNIAQ MNLLFIKNNVFL
21251	51619	C	21378	354	530	
21252	51620	A	21379	1	1272	MVLSEKASGSTLRGCTEERTLS LTS LGLSMPADPCEGGARSCLV TESARGGLQFLQCDREDLVEL ALPQLAQVVTVYEFLLMKVAE SLGITEFLRKKEIHPDNLGPKHL SRDM DGEQLEGASSEKREREA AEEGLASVKRPRREALSNDTTE SLAANSRGREKPRPLHALAAES HTTTVSGGNGSVFQAGPQLQA LANLEARRGSIGAALSSRDVSG LPVYAQS GEPRRLTQAQVA AFP GENALEHSSAQDTWDSL RSPGF CSPLSSGGGAESLPPGGPGHAE AGHLGKVCDFHLNHQQPSPTS VLPTEVAAPPLEKILSVDSVAV DCAYRTVPKPGPQPGPHGSLLT EGCLRSLSGDLNRFPCGMEVHS GQRELESVVCLSAETMAF*NFP MGA\MSYCL\RD\RSRFLFRLPM GLSCPLQVQ
21253	51621	A	21380	90	204	
21254	51622	B	21381	13	423	

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21255	51623	A	21382	1513	2405	RRAQYRRWRRRWRRRHREPE KEKRRHSRSHSRRRRTLIF*TQS RSRRE*LHCQSRSR**FKSPRQ RRSRSRERGRSTARHYRSTKER QQRSSRSGTRSPKKSRCPKRKL SLSPSPGKHKKKKKDKERNRY ERERSTSKKKSKDREKDQERKS ESDTDVKVTRVYDEEEQGYDT SQEIEMHADNPAAIQTVVLQRD DLQNGLLSTCRELSRATAELER AWREYDKLEYDVTVTRNQMQ EQLDHLGEVQCWCYRTEKYV MERGPEQDPKRAFLDFVQERIQ GESAVQSESKFIKTVKK
21256	51624	A	21384	1	180	
21257	51625	A	21385	3	115	
21258	51626	A	21386	3	312	LPTALLRSTSMALLHSGRVLPGL AA AFHPGL/AA/AASARASSWW THVEMGPPDPILGVTEAFKRDT NSKKMNLGVGAYRDDNGKPY VLPSVRKFVTVQTISGTGAL
21259	51627	A	21387	3	395	STMALLHSGRVLPGLAAAFHPC LAAAASARASSWWTHVEMGPP DPILGVTEAFKRDTNSKKMNLG VGAYRDDNGKPYVLPSVRKAE AQIAAKNLDLLPLNVVCSLSS HTVSPAAQGGTRKEDILGFACC
21260	51628	A	21388	1	303	
21261	51629	A	21389	2	425	RPE*WKEIATVVKRNLFALFD MAYQGFASGDGDKDAWALHH FIEQGINVCLCQSYAKNMGLYG EHVGAFTVVCKDADEAKRVES QLKILISPMYSNSPLNGAQIASTI PNTPVGLKVWVMGGLHDHPQ VMSDEKETTLRA

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21262	51630	A	21390	3	1508	HEAGAGSLCVC PARPLLRPAAA HCPSYRSTMAHACTSGRVLPGI AAA\FHPGLAAAASARASSWW THVEMGPPDPILGVTEAFKRDT NSKKMNLGVGAYRDDNGKAL PCCPSVRKAEGPRLPQKIWDKE YL\PIGG\LAEFCKASAEALGE NNRSLERVGRFVTVQTHFWEL GALRI GASFL\QRFFKFSRDVFL PKPTWGETTHPSFRDAG\MQL\ QGYR\YYDPKTCGFDFGTGAVED ISKIPEQSVLL\LHACG/HNNPTG VDPRPEQWKEIATVVKRNLF AFFDMAYQGFASGDGDKDAW AVRHFIEQGINVCLCQSYAKNM GLYGERVGAFTMVCKDA\DES KRVESQLKILIRPMYSNPPLNG ARIAAAILNTPDLRKQWLQEVK GMADRI\GHAGLQLVSNLQGR EG\STH\NWATHSPTKLGMFCF HRG*KLEQVERLIKEFSIYMTK DGRISVAGVTSSNVGYLAHAIH QVTKYVSLVRGNGDNLSVLSL
21263	51631	A	21391	1	184	
21264	51632	A	21392	70	253	
21265	51633	A	21393	1	351	VMEFYCQSCETAMCRECTEGE HAEHPTVPLKDVEEQHKASLQ VQLDAVNKRWGTLPKPPTGCL YLRPGLMASC\QLTNQKASI\VD DIHSTFDELQKTLNVRKSVLLM ELEVNYGLKHK

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21266	51634	A	21394	208	2546	WLHCMQQQRAGSKTAGPPICQ WSRMAS\EGTNIP\SLVVGGQ\NDK QFLICSICLERYKNPKVLPCLHT FCERCLQNYIP\AHS\LTLS\CPVC RQTSILPEKGVAALQNNFFITNL MDVLQRTPGSNAEESILETVT AVAAGKPLSCP\NH\DG\NVMEF YCQSCETAMCRECTEGEHAEH PTVPLKDVVEQHKASLQVQLD AVN\KRWGTLPKPPTGCLYL RP GLMASCQLTNQKASIVDDIHST FDELQKTLNVRKSVLLMELEV NYGLKHKVLQSQ\LD\TLLQGQE SIKSCSNFTAQTLNHGTETEVLL VKKQMSEKLNELADQDFLHP RENDQLDFIVETEG\KKSIHNL GTILTTNAVASETVATGEGLRQ TIIGQPM\SVTITTKDKDGELCKT GNAYLTAELSTPDG\SVADGEIL DNKNGTYEFLYTVQKEGDFTL SLSLYDQHIRGSPFKLKVIRSAD VSPPTEGVKRRVKSPGSGHVKQ KAVKRPASMYSTGKRKENPIED DLIFRVG\TKGRNKGEFTNLQGV AASTNGKILIADSNNQCVQIFSN DGQFKSRFGIRGRSPGQLQRPT GVAVHPSGDIIIADYDNKWVSI FSSDGKFKTKIGSGKLMGPKGV SVDRNGHIIVVDNKACCVFIFQ PNGKIVTRFGSRGNGDRQFAGP HFAAVNSNNEIIITDFHNHSVKV FNQEGEFMLKFGSNGEGNGQF
21267	51635	A	21395	1	591	
21268	51636	A	21396	3	608	LEGDQRWINTVSQALHLLSTLY GPFPCYIGIRCAKMA YELWR NLEEEEDGETKRRPEIGHIFLL DRGKLCPAFLSSFS\PRRHG\NME GVVAKLKS*S*GCESQL*GA WV LGP\MESIKAALGHAV*KAGSGR TFMVRDLCF\DVDFVTALCSQV VYEGLVDDTFRIKCGKCYGPLH LGKMDGSSALAPATWGRVCGR DPHPE
21269	51637	A	21397	268	402	
21270	51638	A	21398	139	452	

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21271	51639	A	21399	1	2497	MGPVAAPLGLSLPATDGAHSV RGNSVLVPSGLIPKDYRSLKTQ YLQSYGPEHLLTFSNLRAGLL TEQAPGDTLTAVESKVSCLVTD KAAGKITDAFSSLAKRNFRAIS KKLNLIPRV DGEYDLK VPRDM AYVFGGAYVPLSRIIEQVLER RSWQGLDEVVRLNCSDFAT DMTKEDKASSESRLILVVFLG GCTFSEISALRFLGREKG YRFIF LTTAVTNSARLMEAMSELPGK KDLFIETDLMSPLDRIANVSLK QHEVDKLYKVENKPALSSNEQ LCFLVRPRIKNMRYIASLVNAD KLAGRTRKYKVIFSPQKFYACE MVLEEEGIYGDVSCDEWAFSLL PLDVDLLSMELPEFFRDYFLEG DQRWINTVAQALHLLSTLYGPL SQT CYGIGRCAKIMAYEFVEGT WEEEDGRNPRARREGFG\HIF LL\DR\DVDFVDSTLLPKLVYEG LVDDTFRIKCGSVDFGPEVTSS DKSLKVLLNAEDKVFNEIRNEH FSNVFGFLSQKARNLQAQYDR RRGMDIKQMKNFVSQELKGLK QEHY\LLSLHIGVACESIMKKKT KQDFQE\LIKTEHALLEGFNIRE STSYIEEHIDRQVSPIESRLMC LLSITENGLIPKDYRSLKTQYLQ SYGPEHLLTFSNLRAG\LLTEQ APGDNLTA VESKVSCL\VTDKA AGKITDALS\SLAKRSQFRAISK
21272	51640	A	21400	1	216	
21273	51641	A	21401	2	270	
21274	51642	A	21402	1	600	SGRALHASWAAGGVGAYSGRL RSDALEGESFA\LSFSSASDAEF DAVVGYLEDIIMDDEFQLLQRN FMDKYYLAEFEDTEENKLIYTP FNEYISLVEKYIEEQ\LLQR\PEF NMAAFHHNITPSVPVCRHHKD EVAW*QYSAMLAPPFTRFSWA F*RNVFGTYRGRKKEGRGLADL SSGLVVVTS LCKSSSLAPASQNNL RH
21275	51643	A	21403	1	297	

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21276	51644	A	21404	1	1419	MGAPLLSPGWGAGAAGRWW MLLAPLLPALLLVRPAGALVEG LYCGTRDCYEVLGVSRGAGKA EIARAYRQLARRYHPDRYRPQP GDEGPGRTPQSAEEAFLLVATA YETLKIVFPELKIVKELTTLLMP SRAVWIIWSHKMSGGAGPEL DIGYVPVLLHMPKRJGSGMDTS RSTTVIPVEIRNKELIALLVKAQ DRQEEETNYKLRFNGLSYEVG YLVIQDEETRKDYDYMLEDHP EEYYSHYYHYYSRRAPKVDV RVVILVSVCAISVFQFFSWWNS YNKAISYLATVPKYRIQATEIA KQQGLLKKAKAKSKNNKVQR RNS*EEENIIKNIKSKIDIKGGY QKPQICDLLLFQIILAPFHLCSYI VWHCRWIYNFNIKKEYGEEE RLYIIRKSMKMSKSQFDSLEDH QKETFLKRELWIKENYEVYKQ EQEEELKKKLANDPRWKRYRR WMKNEGPGRLTFVDD
21277	51645	A	21405	1	1266	
21278	51646	A	21406	1	739	
21279	51647	A	21407	1	428	

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21280	51648	A	21408	99	2338	MPEEVHHGEEEVETFAFQAEIA QLMSLIINTFYSNKEIFLRELISN AS\DALDKIRYESLTDP SKLDSG KELKIDIHPNPQEPYPGLWVDTG IG\MTKADLINNLGTIAKSGTKA FMEALQAGADISMIGQFGDGFY S\ANLVAKKVVVITKHPADDEQ YAWESSAGGSFTVRADHGEPIA VRGTQVILHLKEDQTEYLEERR V\QEVVKKH\SQFIGYPITLYLE KEREKEISDDEAEEEEKGEKEE DKDDEEKPKIEDVGSDEEDDSG KDKKKKTKKIKEKYIDQEELNK TKPIWTRNPDDITQEEYGEFYK SLTNDWEDHLAVKHFSVEGQL EFRALLFIPRRAPFDLFENKKKK NNIKLYVRRVFIMDSDELVP YLNFI PGVVDSEDLPLNIFRKML QQNK/ILWKVIRKNIVKKCLELF SELAEDKENYKKFYEA FSKNLK LGIHEDSTNRRRLSELLRYHTS QSG\DEMTSLSEYVS\RMKETQ MSIYYITGESK\EQVANS AFVER VRKRGFEVVYMT\EP\DEYCVQ QLKEFDGKKL\SVTKEGLELP EDEEEKKKMEESKAKFENLCK LMKEILDKKVEK\VTIS\NRL\VS SPC\CIGHKHLGAGQALIERDHE KPRALRDHPPQGGIMMGKKAP *ESPPDHPHFVETRAGRKADAR QVMIRAVKD/LWWVLLV*NPP LLSSGF\SLEDPQT/HTPNRIYRI
21281	51649	A	21409	1	426	
21282	51650	A	21410	1	1305	
21283	51651	A	21411	446	3180	VAVRLGSASQFSPGARPQLPRP PSWSSSIHSPISTTGLSESTDS KSGLRGFSAYNPSSRIPKSTTSS NSSDGA V TASNQDTGIPWVLV TGPTPPVNSPVESLQGS AFSSGF STPRGLVKGPTLPPDSNLTSVSD YTWIFVRGPPIPNDLSQVSIQAP PTPSNTPECQYKGLPHPQCPASP GVWYQDHLYPITFPQCRHKHL LHPITSPQCQGRRLPPPQCLTLR GVQYKNLLHPVILSSCRHKDIL NLITLAE



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21284	51652	A	21412	24	667	MLPWLNCITTGVPWTPTSKRW LRNSKVDCDDKTPSNAFSLLS VPPTTTSPASLA WWSGCARLLD LGSSSLMMSPTMASPACRPWL GQRWRLISGSWA WAIVPVT*VP VPEPSWKNRAG*PGCSSYESPH MRRPTRPSASCLEWAPRASLA MHLMATSFVLLSSARITSEKA PLSGEGIHKVKNWNPSFPASPP FPMGSVTTAGPRTWMTLP
21285	51653	A	21413	1	304	RAQVLPARCYPGSTVSPLGFRG LPLPRGGSEIPRCATAATRPHR MPFLFYFLQQQHRPHHWHGG AAVPGFWTSAHPA\CDVTYHGF PSLQALAGPPWQCI
21286	51654	A	21414	1	7629	
21287	51655	A	21415	180	423	
21288	51656	A	21416	17	753	QAHTRRAGGRAQVLPARCYPG STVSPLGFRGLPLPRGGSEIPRC ATAATRPHRMPFLFYFLQQQH RPHHWHGGAAVPGFWTSAHPA \CDVTYHGFPSLQALAGPEVEA HLRKLGLGYRARYVSASARAIL EEQGG/RLAAAATRVLI*GGP QGPHPAWSGHQGG*LHLPDG PRQAPGCARGCPYVAHCPT*LQ LAPYHVPGEGETEPPDQQTGKL FPEPVGTLCWLGPSALSGH H F YDLSRTP
21289	51657	A	21417	17	1087	QAHTRRAGGRAQVLPARCYPG STVSPLGFRGLPLPRGGSEIPRC ATAATRPHRMPFLFYFLQQQH RPHHWHGGAAVPGFWTSAHPA \CDVTYHGFPSLQALAGPEVEA HLRKLGLGYRARYVSASARAIL EEQGG/RLAAAATRVLI*GGP QGPHPAWSGHQGG*LHLPDG PRQAPGCARGCPYVAHCPT*LQ LAPYHVPGEGETEPPDQQTGKL FPEPVGTLCWLGPSGWIRCLLK NYRLLPLDLEGLLGNAFDGHQ LLRPLIFCQDHLREGPPIGRGS QGEELEPQLPSSLSSIPYGFCDH CWTKDVDDPPLVTHSPGSRD GHMTQAWPVKVVSPLATVIGH VMQASLLAL

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21290	51658	A	21418	3	1584	TQKNTAVRAHRLWGREGISRK EGAGPTPQESRRIGARSGALMT RKGRGMQEVEELSETGKVVKQ HRVGEALRVVVLVWAGSLG/D RRGLVLGRRGYYGAVPAVEMP ARALLPRRMGHRTLASTPALW ASIPCPRSELRLDLVLP SGQSFR WREQSPAHWSGVLADQVWTL TQTEQLHCTVYRGDKSQASRP TPDELEAVRKYFQLDVTLAQL YHHWGSVDSHFQEV AQKFQG VRLLRQDPIEC LFSFICSSNNNIA RITGMVERLCQAFGPRLIQLDD VTYHGFP SLQALAGPEVEAHLR KLGLGYRARYVSASARAILEEQ GGLAWLQQLRESSYEEAHKAL CILPGVGTKVADCICLMALDKP QAVPVDVHMWHIAQRDYSWH PTTSQAKGSPSPQTNKELGNFFR SLWGPYAGWAQAGLLGNAFD GHQLLRPLIFCQDHLREGPPIGR GDSQGEELEPQLPSSLSSIPYGF CDHCWTKDVDDPPLVTHPSPG SRDGHMTQAWPVKVVSPLATV IGHVMQASLLAL

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21291	51659	A	21419	837	2785	WTRMLFAVSCNDGECQNSNVI LFCDMCNLA VHQECYGVPIPE GQWLCRRCLQSPSRAVDCALC PNKGGAFKQTD DGRWAHVVC ALWIPEVCFANTVFLEPIDSIEHI PPARWKLTCYICKQRGSGACIQ CHKANCYTA FHVTC AQQAGLY MKMEPVRETGANGTSFSVRKT AYCDIHTPPGSARRLPALSHSE GEEDEDEEEDGKGWSSEKVK KAKAKSRIKMKKARKILAEKR AAAPVVSVP CIPPHRLSKITNRL TIQRKSQFMQRLHSYWT LKRQ SRNGVPLLRLRLQTHLQSQRNCD QVGRDSEDKNWALKEQLKSW QRLRHDLERARLLVELIRKREK LKRETIKVQQIAMEMQLTPFLIL LRKTLEQLQE KDTGNIFSEPVPL SEVPDYLDHIKKPMDFFTMKQ NLEAYRYLNFDDFEEDFNLI VS NCLKYNAKDTIFYRAA VRLRE QGGAVVRQARRQAEKMGIDFE TGMHIPHSLAGDEATHHTEDA AEEERLV LLENQKHL PVEEQLK LLERLDEVNASKQSVGRSRA KMIKKEMTALRRKLAHQRETG RDGPERHGPSSRGS LTPHPAAC DKDGQTD SAAE SSSQETSKGL GPNMSSTPAHEVG\GEPQFCSP KRTRRQ/HGPPKRGRPPKNRES QMTPSHGGSPVGP P/RAPHHEFP ASAQAG*EPQFCSPKRTRRQLD
21292	51660	A	21420	1	2625	MENKITGYTTVDISQWHRKEHF EAFQSVAQCTYNQTVQLDITAF LKT VKKNKHKFP AFIHILARL MNAHPEFRMAMKDGELVIWD SVHPCYTVFHEQTET FSSLWSE YHDDFRQFLHIYSQDVACYGE NLAYFPKGFIENMFFVSANPWV SFTSFDLNVANMDNFFAPVFTM GKYYTQGDKVL MPLAIQRDSE DKNWALKEQLKSWQRLRHDL ERARLLVELIRKREKLKRETIKV QQIAMEMQLTPFLILLRK

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21293	51661	A	21421	164	1401	PPKGRGMQEVEELSETGKVVK QHRVGEALRVVVLVWAGSLG/ DRRGLVLGRRGGYYGAVPAVE MPARALLPRRMGHRTLASTPA LWASIPCPRSELRLDLVLPQGQS FRWWREQSPAHWSGVLADQV WTLTQTEEQLHCTVYRGDKSQ ASRPTPDELEAVRKYFQLDVTL AQLYHHWGSVDSHFQEVAQKF QGVRLLRQDPIECLFSFICSSNN NIARITGMVERLCQAFGPRLIQL DDVTYHGFPSLQALAGPEVEA HLRKLGLGYRARYVSASARAIL EEQGGLAWLQQLRESSYEEAH KALCILPGVGTKVADCICLMAL DKPQAVPVDVHMWHIAQRDY SWHPTTSQAKGSPQTNKELGN FFRSLWEPYAGWAQATPPSLQ VLFSADLRQSRHAQEPPAKRRK
21294	51662	A	21422	751	2107	SSEHPRELHRJPISWAMSELKDC PLQFHD\FKSVDHLKVCPRYTA VLARS\EDDGIGIEELDTLQLEL ETLLSSASRR\LRVLEAETQILT D\WQDK\KGDRRFLKLG\RDH\E FGAPPKHGKPKK\QKLE\GKAG HGPGP\CPGRPKSKNLQPK\IQE YEFTDDPIDVPRIPKNDAPNRF WASVEPYCADITSEEVRTLEEL LKPPEDEAEHYKIPPLGKHYSQ RWAQEDLLEEQKDGARAAAV ADKKKGMLMGPLTELDTKDVDA LLKKSEAQHEQPEDGCPFGALT QRLQALVEENIISP MEDSPIPD MSGKESGADGASTSPRNQNKP FSVPHTKSLESRIKEELIA\QALL *AGDLLAKDSEDEVLAELRKR QG\EL\KALSAHNRTKKA\DLLR LAKEEVSRQELRQR\VRRAERE GMDAFRKIHGLPGRKRNSPPK K\EKDQAWKNS*KEREHP
21295	51663	A	21423	107	331	

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21296	51664	A	21424	387	1071	NNPEWRTLIIYVDKENGEPGTR VVAKDGLKLG\SGPSIKALDG\R SQVS\TPRFGKTFDAPTQPYLKL PRKALG\TVNR\TTEKSVKDPGD PSNKKQPKLFRPKKDGPEEGLL KAKKPLFPGLQD*CIPEIRKIPF PFNPS*TLRSF*PCPEEHPDCGTF PL*VGVP\LMIP\LTREREL*KSW FQLGPPFHLWKDGPLPPWGIPIC LQFSFQGISVRTWGV\DLPPVCC DIDI
21297	51665	A	21425	480	1270	RSVKKVGAQRP GSGGGWGN EGWVPQATAPGWAYTHVLFLY LFVTTPIAALRADGFGDNPFI HCLVAEILPAPGKLLGKSTWPL EVHLSSRPQRS\PHRLPEALLPFS LSQG/HCVVGYGIYYFIYSTWK GRTIYLEDIYVMPEY/RGYWAE AEAGVGAKHPTDPTVIPCQSP AGVIF*SPSAQTIAIFCLFLSTTG QGIGSKIHKVAEVALDKGCSQ FRLAVLDWNQRAMDLYKALG AQDLTEAEGWHFFCFQGEATR KLAGK
21298	51666	A	21426	182	797	LPFARPWDFGPRQRGSGWLPC GSREAKEGDCGDIL\RLIRVKTA GPELAEFEKLFSGGERSVEEAL ESRLAFGDNPFYHLFW*AEILP APGESYWG/HCVVGYGIYYFIY STWKGRTIYLEDIYVIAGNIGV QGIGSQK*SKKVAEVALGIRGC SPNFRLARPLD\WNPEGPWDLY KAPRSPKI*RKLEGWHFFCFQG EATR KLAGK
21299	51667	A	21427	224	490	QAGFISARNITWR*ANRRSTWR SYRRKSGRTANCPPISPACSRC SAPIFIPKNGWWRAMVAPLKW PSTGAFNRLFVPLL TWWRSPDR
21300	51668	A	21428	301	773	HGPGTQQRPRSIWRMPQ*ARPG GRSLAVGGGPRPRAAGGFP*VA SRARRCQRIAHGCHCAFSPLSP ALLSQDAGLCQSRPLLLGQRRR LSQEVWSGLGNVHFCQPPEDA ATTPSCPEALTAQQQQASVCDR VSHRFSTWSMVRCSDRTEGQR LQTLGD
21301	51669	B	21429	1	1380	

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21302	51670	A	21430	1	1660	AGVLASHPNSTDVHIINLSLTFH GQELLSDTKLELNSGRRYGLIG LNGIGKSMLLSAIGKREVPPIEH IDYHILTREMPPSDKTPHLCVM EVDTERAMLEKEAERLAHEDA ECEKLMELYERLEELDADKAE MRASRILHGLGFTPAMQRKKL KDFSGGWRMRVALARALFIRPF MLLLDEPTNHLDLDACVWLEE ELKTFKRILVLVSHSQDFLNGV CTNIIHMHNKKLKYITGNYDQ YVKTRLELEENQMKRFHWEQD QIAHMKNYIARFGHGS AKLAR QAQSKEKTLQKMMASGLTERV VSDKTLSFYFPPCGKIPPPVIMV QNVSFKYTKDGPCIYNNLEFGI DLDTTRVALVGPNGAGKSTLLK LLTGELLPTDGMIRKHS HVKIG RYHQHLQEQLDLDSPLEYMM KCYPEIKEEEMRKINIGRYGLT GAKQQVSPIRNLSDGQKCRVCL AWLAWQNPHMLFLDEPTNHL DIETIDALADAINFEFGMMLV SHDFRLIQQVAQEIWVCEKQTI TKWPGADILAYKEHLKSKLVDA

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21303	51671	A	21431	78	2022	NNSNLPLWVIIMPSDLAKKKAA KKKEAAKARQRPRKGHEENG VVTEPQVAEKNEANGRE/TTRE VDLLTKELEDFEMKKAAARAV TGVLAHPNSTDVHIINLSLTFH GQELSDTKLELNSGRRY\GLIG LNGIGIGKSMLLFAIGKREVP EHIDIYHLTREMPSPDKTPLHCV MEVDTERAMLENEAERLAHED AECEKLMELYERLEELDAD*AE MRASRI\HGLGFTPAMQRKKL KDFSGGWRMRVALARALFIRPF MLLLDEPTNHLDLDACVWLEE ELKTFKRILVLVSHSQDFLNGV CTNIIHMHNNKKLYYTGNVDQ YVKTRLELEENQMKRFHWEQD QIAHMKNYIARFGHGS AKLAR QAQSKEKTLQKMMASGLTERV VSDKTL SFYFP CGKIPPPVIMV QNV SFKYTKDGPCIYNNLEFGI DLDTRVALVGPNGAGKSTLLK LLTGELLPTDGMIRKHS HVKIG RYHQHLQEQLDL DSPLEYMM KCYPEIKEEEMRKIIIGRYGLT GKQQVSPIRNLS DGQKCRVCLA WLA WQNPHMLFLDEPTNHLDI ETIDALADAIN EFEGGMLVSH DFRLIQQVAQEIWVCEKQTITK WPGDILAYKEHLKSKLVDEEPQ LTKRTHNVCTLT LASLPRP
21304	51672	A	21432	313	599	
21305	51673	A	21433	737	1006	DNPVVFVFGSVYMLDYVY*FS YVEPPLHPWDEAHLIMVDKLF DVLLDSVCQYFIEDFCINVNQG YWSKILFFCCISARLWYQDDAG
21306	51674	A	21434	1108	1260	GVNFNLSCFLWAFSAIHFLPH TALNVSQRFWYVVSLSLVSK NIFISAF
21307	51675	A	21435	804	917	
21308	51676	A	21436	158	298	
21309	51677	A	21437	1	1068	
21310	51678	A	21438	1	1188	
21311	51679	A	21439	122	352	
21312	51680	A	21440	647	662	ICGVISEGSVLFH*SISLFWYQY HAYLVTD/SLVV*FEVT*HDASS FVLLA*DRRPEGSSPKSP
21313	51681	B	21441	53	692	
21314	51682	B	21442	1	925	
21315	51683	A	21443	606	900	

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21316	51684	A	21444	33	852	CWKFWARAN*AGGITLPDFKL YYKATVTKTAWKFHFTMFGV DLKETCTAPSLWKDLALNTVE LVCKLCVRQVEGARQIFQLNCT VSE
21317	51685	A	21445	3	795	
21318	51686	A	21446	475	1023	CWFSAGDGGLPDPDYGQDFAA HPAGAGALYKCRDLINDNILRT VSCQSHDDGDIRGMAFARQ*Q RPVQIDHNMARRG**AATFQPI NKTFSGIHWPHGMRTGGTNPN FENIECTNHIHTLGLPFSEVERN DCDGFNFQLHIFRQTRDLHTAP GRIGRLMLIEELLIDFVDGGKII QIGDKHGH
21319	51687	A	21447	1637	2020	PSSEFTGGPARGFPERARAQL TGRTPGQRTQLDNDLLTKSTP WRGVMGPTLLPGLLAGPFQPL GHTGPFYPQGFRWQKTHWVRL AQAHWQF*LGQFRGPKTADGG GSKGPGLSASHGAKHHVITYV
21320	51688	A	21448	1051	1185	
21321	51689	A	21449	1290	2025	
21322	51690	B	21450	1	1410	
21323	51691	A	21451	3269	3678	SLSIRLATAPCWLRYPASSRRFQ PTRSAGSVTDSSVTASASSPG*R *NASPICRERSHRSSRGQARRSL HLWDRSDR*TLPCDHGRCCCHA NDQQVGFAGNYSTAGQT*RW GFTAGHAGRDINKSADKLPAT AGKR
21324	51692	B	21452	2655	2825	
21325	51693	A	21453	1	896	MGDFNTPLSTLDRSMRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTTFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQNHSTTWKLN NLLLSDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQLEKEKQEQTTHSKASRRQE ITKIRAELEKETQKTLQKINESR SWFFERJNKIDRPLARLIKKKRE KNQIDTIKNDKGDITTDPTTEYK LPSENTTNTSTQIN*KI*KKWIN SSTHTLSQD



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21326	51694	A	21454	23	559	TPGLRQSSLSPSAFASQNAGVS GIGGFLVSLTSRMKPWTLMFR CVWSFFLLVGSWSCWLQE*SC RPSQ*VSQFL/NSSASGVVCCSC LELFVPPGGFVVSLASRVKLQT FTVSVTAHKGGVDPKSEQQD LVQKAKEHSFCSVEADLSGLPL LAGAACFYSLMEPHPHPADWSI LQRAD
21327	51695	A	21455	26	323	
21328	51696	A	21456	221	734	
21329	51697	A	21457	293	2103	PCHSALSSPLPHRDCIALCFLNS GTSFVAGFAIFSILGFMFQEQQ VPISEVAESGPGLAFIAYPRAVV MLPFSPLWACFFFMVVLLGL DSQFVCVESLVTALVDMYPHV FRKKNRREVLILGVSVISFLVGL IMLTEGGMVVFQLFDYYAASG MCLLFVAIFESLCVAWVYGAK RFYDNIEDMIGYRPWPLIKYCW LFLTPAVCTATFLFSLIKYTPLT YNKKYTYPWWGDALGWLLAL SSMVCIPAWSLYRLGTLKGPR EVIIPVSIRMTKVAGTAGLSGN VGPRCDLSRIEELPDGGTRCGM DSRVSGTTSNGETKPVYPVME KKEEDGTLERGHWNKMEFVL SVAGEIIGLGNVWRFPYLCYKN GGVVGFYNSIKNIPILQRVILFV RIHNMLNKGQGVLAACDAK KIEEKEADAGSASVPGDVMRT KKLSFEGAWHPCLLVGLKLS ALELRGGFISARIAGPRAESDS VGLERELRVCIANKLPGADAA GPGTTFWKHCSMPITDGADAV EGRNTQEAFFRQLNPEAAFLHF MEMVDTNALHVHGIHTRKNHP GQKEAAHSQHGTFFIRWTLNLL KRTFQKGNRAEPNSPAM
21330	51698	A	21458	1	419	MKLRTLAVSATALKVARLEFV PFDVRMCSEFLSSGVKLQTFV SVTALNALRLELFVPPGGLMVS LASGVKLQIFTVSVTAHKSSVD PKTLG/CVDGTGRRGAGGGAH RGGLGRTGAHGGGRLRHGGL QVSSPAPRKGS

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21331	51699	A	21459	24	1639	GGMDSRVSGTTSNGETKPVYP VMEKKEEDGTLERGHWNK EFVLSVAGEIIGLGNVWRFYP CYKNGGGAFFIPYL VFLFTCGIP VFLLETALGQYTSQGGVTAWR KICPIFEGIGYASQMIVILLNVY YIIVLA WAFYLFSSFTIDLPWG GCYHEWNTGNWVDVVE/HGG* GEWCGNGSNTPHVCR/VTGWT W*SRWLKGMVWEWIQHTPCV QGTGWTW*STWLKG/PGNRVD VVEHVAEGNGVGMDPTHPTCA GNRVDVVEQVAEGNEHCMEF QKTNGSLNGTSENATSPVIEFW DSPPGPQFVCVECLVTASIDMF PRQLRKSGRRELLITIAVMCY LIGLFLVTEGGMYIFQLFDYYA SSGICLLFLSLFEVVCISWVYGA DRFYDNIEDMIGYRPWPLVKIS WLFLTPGLCLATFLFSLSKYTPL KYNNVYVYPPWGY\SIGWFLA LSSMVCVPLFVVITLLKTRGPFR KVGGVGESDLLKEGTERGWT WGRTHNWGQGADTNSECGAA LQSHRILTRRTLKTSPVAFQKCS
21332	51700	A	21460	1358	4787	RRCYCGIWSRYLLKRLWKWIS GEGWAEKDSARRRGICTFWLE FE/VTCLSWNSLF/YAHINVDISG MKVPWLYVGMCFSSFCWHIED HWSYSINYLHWGEPKTYGVP SHAAEQLEEVRELAPELFESQ PDLLHQLVTIMNPNVLMHGV PVYRTNQCAGEFVVTFPRAYHS GFNQGYNFAEAVNFCTADWLP IGRQCVNHYRRLRRHCVFSHEE LIFKMAADPECLDVGLAAMVC KELTLMTEETRLRESVV
21333	51701	A	21461	1	5773	MEEKPLKVKGKDSSEKKRKRK LEKVEQLFGEGKQSKELKKM DKPRKKKLKLADKSKELNKL AKKLAKEEERKKKKEKAAAK VELVKESTEKKREKKVLDIPSK YDWSGAEESDDENAVCAAQN CQRPCKDKVDWVQCDGGCDE WFHQVCVGVSPEMAENEDYICI NCAKKQGPVSPGSHKAVITVV VKAVSYLKFEEESTSELMWLL AAFSSFWVVGKALDFVWPLA REEKEIGDNKDLERNKIGVNM

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21334	51702	A	21462	85	1333	STSRALSGAQRFGRLIDHGARY PALLLLLLLPL\VHVSATTPEPR\IE LDDDFRCVCNFSEPPQDWSEA FQCVSA\VEVEIHAG\GLNL\EPF LK\RVDAADADPRQYA\DTVKGF PR\VRRASQVGAAQVPA\QLLV GALR\VLA\YSRFKELTLEDLKI TG\TMPPLPLEATGLALS\SLRLR NVSW\ATGRSWLA\EL\QQWLK PG\LVLSIAQAHSPAFSCEQYR CFPGPSPA*DLSDNPGTGANAE LMAALCPHKFPA\QNL\ALRNT GNRRPQGVCAALAAAGVQPH SLDVSHNSLRANRNPSAP\RCM \WSNA\NSPQICRFAGAGTGVP KGPAPAKL\RVLRSSACNRL\NR A\QPWTSLE\VDNLGQLDGNP FPGSPGTGPSPTGSMN\SGVVP SLCNVRTCRVGVSGTLVLLQG ARGFA
21335	51703	A	21463	1640	5804	TITGSSPLAGGHHSTCRGRMDM VENADSLQAQERKDILMKYDK GHRAGLPEDKGPEPVGINSSIDR FGILHETELPPVTAREAKKIRRE MTRTSKWMEMLGEWETYKHS SKLIDRVYKGIPMNIRGPVWSV LLNIQEIKLNPGRYQIMKERG KRSSEHIIHIDLVRTTLRNHV FFRDRYGAKQRELFYILLAYSE YNPEVGYCRDLSHITALFLLYL PEEDAFWALVQLLASERHSLPG FHSPNGGTVQGLQD
21336	51704	A	21464	1	960	
21337	51705	A	21465	1	1317	
21338	51706	A	21466	1	3393	
21339	51707	A	21467	2745	6141	QGSKGTCHPQAQQPWDEGVW QEAPSQSEPWGQSQEPPTMPQR LPHARQHTPLPLGSADYRRVVS VRPQGPHRDPKDSRDAKREQ GSLAPRPVPASRGGKTLCKGYR QAPPGPPAQFQRPICASPPWAS RFSTPCPGGAVREDTYPVGTQG VPSLALAQGGPQGSWRFLEWK SMPRLPTDLDIGGPWFPHYDFE RSCWVRAISQEDQLATCWQAE HCGEVHNKDMSWPEEMSFTAN SSKIDRQKVPTKEGATGL
21340	51708	A	21468	65	320	
21341	51709	A	21469	3	505	

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21342	51710	A	21470	2	1756	CRCHSELGSSSL*/CCTRGIGGAI GAVGFRSQAASLAGQPDGNG VCVHAGNSRIFVPLPVGLEVKG FSHSAFTFGIESHISQSNINGTLV PPSALISILQKGLQYVEAEISINK DGTVFDSRPIESLSLIVAVIPDV VQMRQQAFFGEKLTQQQASAA ATEASAMAKAATMTPAAISQQ NPPKNREATVNGEENGAHEINN HSKPMEIDGDVEIPPKNKATVLR GHESEVFICAWNPNVSDLLASGS GDSTARIWNLNENSNGGSTQL VLRHCIREGGHDVPSNKDVTSL DWNDSGTLLAMGSYDGFARIW TENAPALDWDWQNNMTFASCS TDMCIHVCRLGCDHPVKTFQG HTFCTCIESICFWGGLRKLTTM TEGKRLRPKTFCSDDGALLPPA GRRPHLLTGPDIFFKRLSALFQN EVNAIKWDPGMLLASCSDDM TLKIWSMKQDACVHDLQAHSK EIYTIKWSPTGPATSNPNSSIML ASASFDSTVRLWDVEQGVCTH TLMKHQEPVYSVAFSPDGKYL ASGSFDKYVHIWNTQSGSLVHS YQGTGGIFEVWCWNARGDKVGA SASDGSIVCILWQLSGKQ
21343	51711	A	21471	1	1647	
21344	51712	B	21472	4	267	
21345	51713	A	21473	1	1824	
21346	51714	A	21474	33	543	TFEGANNFVGDPVLPNPPKG LPPLHIYWMNIELEHIEQDERV YMSQKGDLYFANVGRKRDSRN D\YCCFAAFPRIKGLLYRKMPM /RNLTVNSSNSIKAKENPKLLA SPLRSGSESSITILKGEILLLECF A EGLPTPQVDWNKIGGDLPKG REAKENYGKTLKIENVY
21347	51715	A	21475	197	516	TYLAAGRTPTLDPWNQERCTM PSGSIWILETHSSFGWVTVAH LSSDPKGCQF*VGSRIGEGSATD PAFCASCSATWTIRPSRSNGA*G VNG**VCWLEPLAGPHR

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21348	51716	A	21476	1	1766	MNVALTHIDTHHAEFEMALQA ALVWNTLRTAGGKKS VHLSA LLVHEIHDGANLTISNVTLEDQ GIYCCSAHTALDSAADITQVTV LDVPDPDENLHLSEQRNRSVRL TWEAGADHNSNISEYIVEFEGN KEEPGRWEELTRVQGGKTTVIL PLAPFVRYQFRVIAVNEVGRSQ PSQPSDHHETPPAAPDRNPQNIR VQASQPKEMIIKWEPLKSMEQN GP\GLEYRVTWKPGAPVEWE EETVTNHTLRVMTPAVYAPYD VKVQAINQLGSGPDPQSVTLYS GEDLPEQPTFLKVIKVDKDTAT LSWGLPKKLNGNLTYLLQYQ IINDTYEIGELNDINITPSKPSW HLSNLNATTKYKFYLRACTSQ GCGKPIEESSTLGEGSVSLEKC ENKLIRNIGTKKQGTAIRIPENV EAALELRKQKLEECGGFRRE NANEQQGVTEEFKQNEKLRF LLLKIVILAVAREMTWNGEGR DLSEPSLTVVFADLSSPAYSLHT TMAQEPGPGLFLSLSTIPWPIS PMIHASVQVSWIPLLRNSLMVH IHSSLEQRNLKVHISKEQKKLNS VDSDLTDNPPTHTVN
21349	51717	A	21477	1	1440	
21350	51718	A	21478	266	3974	RAMEPLLLGRGLIVYLMFLLK FSKAIEIPSSVQQVPTIIKQSKVQ VAFPFDEYFQIECEAKGNPEPTF SWTKDGNPFYFTDHRHIPSNN GTFRIPNEGHIHFQGYRCFAS NKLGIAMSEEIEFIVPSVPKFPK EKIDPLEVEEGDPVLPNPPKG LPPLHIYWMNIELEHIEQDERV YMSQKGDLYFANVEEKDSRND YCCFAAFPRLRITVQKMPMKLT VNSLKHANDSSSTEIGSKANSI KQRKPKL

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21351	51719	A	21479	1	2421	QAGAMASGSVAECLQQETTCP VCLQYFAEPMMLDCGHNICCA CLARCWGTAETNVSCPQCRETF PQRHMRPNRHLANVTQLVKQL RTERPSGGPGGEMGVCEKHREPL KLYCEEDQMPICVVCDRSREHR GHSVLPLEEAVEGFKEQIQNQL DHLKRVTRLKFTDFLAQGEQA RAELLSLTHMEREKIVWEFEQL YHSLKEHEYRLRLARLEELDLAI YNSINGAITQFSCNISHLSSLIAQ LEEKHQPTRELLQDIGDTLSK AERIIRIPEPWITPPDLQEKIHIFA PKCLFLTESLKQFTEKMQSDME KIQELREAQLYSGGSIVGGHEP GEPRGIKAGYGTCNCFPEEEKC FCEPEDIQDPLCDELCRTVIAAA VLFSFVVSVLLSAFCIHCYHKF AHKPPISSAEMTFRRPAQAFVVS YSSSGARRPSLDSMENQVSVDA FKILEDPKWEFPRKNLVLGKTL GEGEFGKVVKATAFHLKGRAG YTTVAVKMLKENASPSELRLD LSEFNVLKQVNHPHVIKLYGAC SQDGPLLLIVEYAKYGSRLRGFL RESRKVGPYLGSGGSRNSSSL DHPDERALTMGDLISFAWQISQ GMQYLAEMKLVHRDLAARNIL VAEGRKMKISDFGLSRDVYEE DPYVKRSQGRIPVKWMAIESLF DHIYTTQSDVWSFGVLLWEIVT LGGNPYPGIPPERLFNLLKTGH

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21352	51720	A	21480	79	2253	PSATLSCPTSVAASLGEPVFP SLRGHRRRHRPGHSPSVRGRV WDTPGGAALRPPGASQEQRT GESAGELGSVQSSAPGMPVVRP RRPGAMASGSVAECLQQETTC PVCLQYFAEPMMLDCGHNICC ACLARC\WGTEET\NVS\CPQCR E\TFPQRHMRPNRHLANVTQLV KQLRTERP\SGPGGEMG\VCE\K HREPLKLYCEEDQMPICVVCDR SREHRGHSVLPLEEAVEGFKEQ IQNQDLHLKRVKDLKKRRRAQ GEQARAELLSL\TQ\MEREKIVW E\FEQLYHSLKEHEYRLARLEE LDLAIYNSINGAITQFSCNISHLS SLIAQLEEKQQPTRELLQDIG DTLSRAERIRIPEPWITPPDLQE KIHIFAQK\CLFLTESLKQFTEK MQSDMEKIQELREAQLYSVDV TLDPDATYPSLILSDNLRQVRY SYLQQDLPDNPERFN\IFPCVLG SP\CFIAGETIIWEGRGWGDKAK WTIGVC*RLSCQEKGGVTSAP QNGFW\AVSLWYGK\EYWALT SPMTALPLRTPFQ\RVGIFL\DYD A\GEVSFIYN\VTERC/HTPFTFSS CLPFGLVRPLLSSLSYSGREK VQLPLINLPP*SGIDGGFLAHVG \NHGSFPWKTFPFEGRVNSGPK GLLAIVLRPGTRHLVCLANVLS KLGILNHVPRPCSGRHGCPCSLP SFFLPMQIVKCNEMYQDILEIKT
21353	51721	A	21481	1	1068	

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21354	51722	A	21482	955	2548	MSLCGARANAKMMAAYNGGT SAAAAGHHHHHHHHLPHLPPP HLHHHHHPQHHLHPGSAAAVH PVQQTSSAAAAAAAAAAAAA MLNPGQQQPYFSPAPGQAPGP AAAAPAQVQAAAAATVKAHH HQSHHPQQQLDIEPDRPIGYG AFGVVWSVTDPRDGKRVALKK MPNVFQNLVSCKRVFRELKML CFFKHDNVLSALDIL*PPHIDYF EEIYVVTELMQSDLHKIIVSPQP LSSDHVKVFLYQILRGLAKYLHF RLGILHRDIKPGNLLVNSNCVL KICDFGLARVEELDESRHMTQE VVTQYYRAPEILMGSRHYSNAI DIWSVGCIFAELLGRRILFQAQS PIQQLDLITDLLGTPSLEAMRTA CEGAKAHILRGPHKQPSLPVLY TLSSQATN*TGHLLEAECGFDP SKRISAKDALSHPYLDEGRRLRY HTCMCKCCLSPSITGRVNTSDL EPVTNPKFDDTFEKNLSPVRQV KEIIHQFILEQ\QKGNRVPLWIN PQSAVFKSFISSTVAQPSEMPPS PLVWE
21355	51723	A	21483	119	692	SYKSRLARKSITGGKAPRKQLA YKKPASQECGPLTGGVKKPHR YR\PGTVAAP*NLDGYQKSTEL MIRK\LRFQR\LVREIAQ\DF\KT DLRFQSAVIRWLCRMAS\EAYL VWPFLKDTNLVCLSMKRVTIY AKKTFQLSTPASRGERALRIHS WMGKHFILKKKKKKFLFFLL VVLNVRYFFFHGVKRYLSI
21356	51724	A	21484	2	363	RFTKVEMKEK\MLSAAREKGR VTHKGKPISLKADLSAETLQAR REWGPIFNILKEKNFQPRISYPA KLSFISEQEIKYFTDKQMLRDFV ITRPALKELLKEALNMERNNW YQPLQKHAKL



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21357	51725	A	21485	1	1468	MRNLRNIQKAKATINLGISFDE GLKGFMWSRIEAAPLPNTRWC LPHGYSGPANSGGCYYITTGMS CWLSLDLYPRHDGVHVGLOQK DLEHDIPVDLGSRPTSVDPVSR APGPQGPAPVDSGSRTTPANP GAGPSPVDPSSRPAPVASGFRLI MIDQNTKLIPVPGWPLRLRLKI YLSSRSASLDGSRFAPVDTNFI PVPTDRGHSHAPEDPVDRLTSV DPTKEKNWMENEFDKLTEVGF RRSVITNFSELKEHVLTHRKEA KNLEKRLDEWLSRITCAEKSLN DLMELKTTVRELREAYTSFMS QFDQAEERISVIEDQINEIKLKSL QAQEDARHRNTDQRSSENRRS EPWSLEERKREQWNSLKQNAD QQDTEAMSDYK/R/YSET*RRR *LFCLLRKVHSEGP*KKDQRE TRNQKGLGFLRDPQWVSGKM KQECLQLGTPWP*IIIGQWQYFP RDGMGVRTDFCRIFQLARMR LCEGCLMNS

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21358	51726	A	21486	1	2589	MSPVTLWVRTSSRGEDRCGMC TPGRDTGFAPISGMCSKYRSCTI NEDTGLGLAFTMPMSLDTKHIP NFGKVHGYIMRHHKNEDTIPW RRNTKKEEARGTQPLEADDQN PGWEDGKPGSLENEGRRSHRG NPAPDMPQPPKEDLFILPDEYK SCLRHKRSLLRSHRNEELNVET LVVVDDKKMMQNHGHENITTY VLTILNMERILKKTSTIIHPSA MERC PVLNLQIRDSLWNHCFSL ATTVHRFHFPVGRHALKKMYKL PSAYINVSITKYTQRFALTYISC VFHRNAAFVAVPGEGRCCAGV DVPAPMSLRSPGPHWPQEHGA LWISCTVRGMASCLGQLCRVS MRVRANIGKVQKPRLRISNGK GLHTQSELSGSAYLEKGWRGA APGLDSRNEKGTEGARDSGTPG RQSQT LQRGPPGPVPGSSKJAPQ TLTRQGSMTASRKLVL LPEFC ERTGEQSGQLYPPSPLLVEWV MPAGTSSTVDPLLPELCRRWER QALSLCRLYRQRTSVSIKALCD HTETRSVALSTCQGLECNSSPA RKQNWME NEFEELTEVGFRKS VITKFSKLKEHILTHRKEAKNLE KRLDEWLTRITSVEKSLNDLME LKTTVRKILHEAYTSFNSRFDQ VEERILVIEHQINEIKQEDK VRE KRVKRNEQSLQEIWDCVKRPN LCLIGVPESDGENGTKLENTLQ
21359	51727	A	21487	260	1292	RLCAFNKRMTFQFNFTIEDHLE NELTPIRDGALTDSSKELSVSE SQKGEERDRKCSAEQFDLPQD HLWEHKSMENAAAPSQD TDSPL SAASSSRNLEPHGKQPSLRAAK EHAMPKDLKKMLENKVIETLP GFQHVKLSVVK TILLKENFPGE NIVSKSFSSHSDLITGVYEGGLK IWECTFDLLAYFTKAKVKFAG KKVLDLGC GSGLLGITAFKGG KEIHFQDYNMVIDEVTLPNV VANSTLEDEENDVNEPDVKRC RKP KVTQLYKCRFFSGEWSEFC KLVLSSSEKLFVKYDILILTSETIY NPDYYSNLHQTFRLLSKNGRV LLASKAHVQRNSLSRL

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21360	51728	A	21488	263	1466	RLCAFNKRMTFQFNFTIEDHLE NELTPIRDGVALTL\DSSKEL\SVS ESQKGRKE\DRKCSAEQFDLP QDHLWGNISSMGKWQAPS\QG HRTSSTSVAASSRNLAEPHGKT ALLAGAGQRSMAMPKRF*RRC LEN*SPLET\LPGFQHVKLSVVK TILLKENFPGENIVSKSFSSHSDL ITGVYEGGLKIWECTFDLLAYF TKAKVKFAGKKVLDLGCGL LGITAFKGASKEIH\QDYNMVS IDEVTLPNVVA\NS\TLEDGGKM DVKWSPDVEKMPGNPKVTQ\L YKCRFFS\GEWS*VL*ALYLSSE K\LFVKYDPHSSPSET\YNPDY YSNL\HQTFLRLLSKNG\RVLLA SKAHYFGVGGGVHLFQKFVEE RDVFKTRILKIIDEGLKRFHIEITF
21361	51729	A	21489	2	367	
21362	51730	A	21490	2	376	QTYSLRRATPRHIIVGFTKVM KEKVLRAA\NKPIRLTVDLAET LQARKEGGPIFNILKEKNFQPRI SYPAKLSFISEGEIKSFTDKQML KDFVTTTRPALQELLKEALNME RNNQYQPLQKHAKW
21363	51731	A	21491	1	690	
21364	51732	A	21492	1	714	
21365	51733	A	21493	1	1536	
21366	51734	A	21494	1	765	
21367	51735	A	21495	1	972	
21368	51736	A	21496	1	2670	
21369	51737	A	21497	2	1178	
21370	51738	A	21498	2	827	
21371	51739	A	21499	1	777	
21372	51740	A	21500	168	1057	IRLKNDDHGDGELRNKTICINRNL AEIKKFSENYENKETMYLNLW DVAKAVLRGQFIALNARIKKLE KSQVYNLISQLKELENQEQTNP KASRRQEITKIRAELEKETWK TLKKINESGRGVDCSS/DASNGT KPDGE*L**VDKSR/PSEARQAN IHIQEIHGTPQR*SLRRATPRH/II VRFTKVEMKEKMLRAARKKG WVTHKGKPIRLTADLLAETLQ ARREWGPIFNILKEKNFQLRISY PAKLSFIREGEIKAFTEKQILRDF VTTTRPALQELLKEALNMRND RYQPLQKHAKL

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21373	51741	A	21501	3	1263	GRTIQTGKGEVENFEKNLEECI TRITNTEKCLKELMELKTKARE VREECRSLRSQCDQLEERVSAM EDEMNMKQEGKFREKRIKRN EQSLQEIWDYVKRPNLRLIGVP ESDVENGTKLENTLQDIIQENFP NLARQANVQIQERQRTTPQRYSS RRATPRHIIVRFTKVEMKEKMG LLVPNWTNHSPLFRAILFDYKG FCRFGTTHQTGFSPAGANQRGP LAATLSGPGGEGQSAVARLTGL IGVPESDVEKETKLETTLQDIIQ ENFPILARQANVQIQEIQRTTPQR YSSRRATPRHIIVRFTKVEMKE KMLRAAREKGRVTLKGKPIRL TADLSAETLQARREWGPIFNIL KEKNFQPRISYPAKLSFISEGEIK SFTDKQMLRDFVTTRPALKELL KEALNMERNNRYQPLQNHAK
21374	51742	B	21502	1	2356	
21375	51743	A	21503	2	484	
21376	51744	A	21504	2	902	ASFFSKKTSFGGGWGAGGPGD PGMGNHGGFRGGFSRGIRGWG HSRGQGPQGGRGAHRGKTKDK EWTSIPKLGHVLKDMKIKFLEEI YLFFLAIKEFEIIDFFLGASLKDE VLKIMPVQKQTHASQRTRLKG FIVIGDYNH/HVGLGVKCSKEV A/TAIRGAILG*LSIVPMCRGY WGSKIGKPHTVPCVTGHCGRS VLVHFIPAPRGTVSVPMMP/KK LLLMAGIYDCY/ARSCTATLGN FTKATFDAISKTSYPTPNLWK ETVFTKSP/YEFRNSGQFTDYL VKT/HIRVSVQRTQAPAVATT
21377	51745	A	21505	2	407	STISCGGNFPIPRGSGVASLER AESSSTEPAKAIKPIDRKSVMHI CSGPVPSLSTAVKELVENSLE AGATNIDLKLDYGVLDIEVSG NGCGVEEENFEGLTLKHHTSKI QEFADLALSDVTISTCHVSAKVG
21378	51746	A	21506	362	490	
21379	51747	A	21507	3009	3889	
21380	51748	A	21508	1	504	LDDLHKWFLSSFLLTAISIGIKF LLKIHISRSGSVLLQLLPGNPSP AAHGTEELEPKFLEQGYLRAVL PGPRVHATA*LEPTVTDQGYAR AGLPIQEVEDVLFGVLVLLHV IGQVAEDRNQVAAQGHQES/C PAQCWGDCTHLEIAGWRGIRRS DANPRSQRKGGF

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21381	51749	A	21509	2	1101	WTERRLGSVRGDRLRERSRPA VNRTPRMSRVPSGAPRGTPSRR WMMKCDWHQPLG*IPAPHV GPLAG/IRKKEWSESEEEPEKE LAPEPEETWVVEMLCGLKMKL KQQRVSPILPEHHKDFNSQLAP GVDPSPPHRSFCWKRKREWW ESESLEEEPRKVLAPPEEIVV AEMLCGLKMKLKRRLVSLVLP EHHEAFNRLLDPVIKRFLAWD KDLRVSDKYLLAMVIAIFYSRA GLPSWQYQRIHFFLALYLAND MEEDDEDPKQNIIFYFLYGKTRS RIPLVRNRRFQLCRCLNPRARK NRSQIALFQKLRFQFFCSMSG AWVSREELEENTGPRGDVDFQ QELYSNANGRQQERGEFPVQI
21382	51750	A	21510	3	918	
21383	51751	A	21511	1	792	
21384	51752	A	21512	3007	3885	
21385	51753	A	21513	615	845	GHTASPPRSPQAQGRAPSVAP PPTTPQICPTTPSSFSSKRTYAG GWDLPQQQADC*SPCGAQGG WVTLAVASASS
21386	51754	A	21514	357	562	GSSTCGRETERVVLLKRRKSPT HFQYRNSPTAEARPQLEPTQW GRRSHSPRPSAPLPCSCPQKSRK SV
21387	51755	A	21515	1	1335	
21388	51756	A	21516	537	1164	SSTEPAKAIKPIDRKSVHQICSG PVVLSLSTAVKELVENS LDAGA TNIDLKLDYGVLDIEVSDNGC GVEEENFEGLSFTLKHHTCKI QEFADLTEVETFGFQGEALSSL CALSDVTISTCHASVKVGTRLV FDHDGKIIQETPYPHPRGTTVS VKQLFSTLPVRHKEFQRNIKKR ACFPFAFCRDCQFPEASPAMLP VQPAELMAV
21389	51757	A	21517	224	903	GFTWYIGMAQPKQERVARARH QRSETARHQRSETAKPTLGNR QTPTLGNRQTPRLGIHARPRR ATTSLTLLRAFGKKTQS/STEP AKAIKPIDRKSVHQICSGPVVLS LSTAVKKIVGNSLDAGATNIDL KLKDYGMDLIEVSGNGCGVEE ENFEGLSWDSTGVFDHDGKIIQ KTPYPHPRGTTVS VKQLFSTLP VRHKEFQRNIKKPVGEKYMRS VDTQACSCI

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21390	51758	A	21518	2	1321	VKSRAALLGPGA/LSPLEVSRRR PWTERRLGSVRGDRLRERSRPA VNRTPRMSRVPSGAPRGTPSRR WMMKWCWDHQPLG*IPAPHV GPLAG/IRKREWSDESEEEPEKE LAPEPEETWVEMLCGLKMKL KQQRVSSILPEHHKDFNSQLAP GVNPSPPHRSFCWKRKMEWW DQSEESLEEEPRKVLAPPEEIW VAEMLCGLKMKLKRRRVSLVL PEHHEAFNRLLDPVIKRFLAW DKDLRVSDKYLLAMVIAFYFSR AGFPSWQYQRIHFFLALYLAND MEEDDEDSKQNIHFHLYRKNRS RIPLLRKRWFQLGHSMNPRARK NRSRIPLLRKRRFQLYRSTNPRA RKNRSRIPLLCKRRFQLYRSMN SRARKNRSQIVLFQKRRFHFFCS MSCRAWVSPEELEENTGPRGD VDFQQELYSNANGRHQAGGEE

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21391	51759	A	21519	1	2654	RSACGSPA WNFSPRGGSGVAS ME\RAESSSTEPAKAIKPIDQKS VHQICSGQVVLSLSTAVKELVE NSLDAGATNIDLKLDYGVDLI EVS DNGCGVEEENFEGLTLKH HTSKIHEFADLTQVETFGFRGE ALSSLCALSDVTIFTCHASAKV GTRLMFDHNGKIIQKTPYPRPR GTTVSVQQLFSTLPVRHKEFQR NIKKEYAKMVQVLHAYC\SFQ QASV*VAPISLDK/RKRQPVVCT GGSPSIKENIGSVFGQKQLQSLI PFVQLPPSDSVCEEYGLSCSDA LHNLFYISGFISQCTHGVGRSST DRQFFFINRRPCDPAKVCRLVN EVYHMYNRHQYPFVVLNISVD SECVDINVTDPKRQILLQEEKLL LAVLKTSLIGMFDSVDNKLNV QQPLLDVEGNLIKMHAADEK PMVEKQDQSPSLRTGEEKKDV SISRLREAFSLRHTTENKPHSPK TPEPRRSPLGQKRGMLSSSTSG AISDKGVLRPQKEAVSSSHGPS DPTDRAEVEKDSGHGSTVDSE GFSIPDTGSHCSSEYAASSPGDR GSQEHVDSQEKAPETDDSFSDV DCHSNQEDTGCKFRVLPQPTNL ATPNTKRFKKEILSSSDICQKL VNTQDMSASQVDVAVKINKKV VPLDFSMSSLAKRKQLHHEAQ QSEGEQNYRKFRAKICPGENQA AEDELKEISKTMFAEMEIIIGQF
21392	51760	A	21520	238	413	
21393	51761	A	21521	288	467	
21394	51762	A	21522	1	3038	MDVGWDLGEDCWQEHHTAF SFDCWPCSQNGDRVPSVNPVG GGAPRSYLQVASAECAWAAAPA VHVGEVHAGGLHTERGADPV IGLYLVHRRGACQPTVGNRQ TPTLGIHARRRRATTSLTLL AFGKNAVRTEPAKAIKPIDRKS VHQICSGPVVPSLSTAVKELVE NSLDAGATNIDLKLDKESGLI KVQANEWGVEETSKGLLLKH HTSKIQEFADLPQVETFGFRGE ALSSLCALSDVTISTCHV
21395	51763	A	21523	34	256	ETGPPGSAPGRLEFTNIKRVVVP QERVELETLLVSFYSPRTPRRT PPFPHPCS*EDNVITVFSSIKNGP GSSR

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21396	51764	A	21524	727	2953	HVSGYDDVPLGTLSLDIWPPAL FSVVSFAAFFFTPPIEAVLKSFSC LLVWYIGMAQPKQERVARARH QRSETARHQRSETA/KTPTLGN RQTPTLGNRQTPLGIHARPRR RATTSLTLLRAFGKKTQS/STE PAKAIKPIDRKSVHQICSGQVVL SLSTAVKKIVENSLDAGATNID LKLKDYGMDLIEVSGNGCGVE EENFKGLTLKHHTSKIQEFADL TRVETFGFRGEALSSLCALSDV TISTCHVSAKVGTRLVFDHDGK IIQKTPYPHPRGTTVSVKQLFST LPVRHKEFQRNIKAQR/PQAR/ CYRCS*PNVSPGPGMAAASTLS A*PRSQSSYFISCKA/EDNAICPI AEQKAEGKFSSRYRNHDSAEN RRDGSMTRPRTDWTLKRACTE KRRPQHASSFEWRGHSCLWDR EQRDAETLKMLLD SGLSVQKK TKDRTETRF GEMGQILGKIMMS HQPQPQEEQSPQRSTSGYPLQE VVDDEVSGPSAPGVDPSPRRS LGWKRKRECLDES DDEPEKEL APEPEETWVAETLCGLKMKAK RRRVSLVLP EYYEAFNRLLDP VIKRLLA WDKDLRVSDKIPSEP TILGASPKTLPPASRICIRPSNTP PPRNFHMSTVTPMLS LANDM EEDDEAPKQNIIFYFLYEETRSHI PLLRELWFQLCRYMNP RARKN CSQIALFRKYRFHFFCSMRCRA



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21397	51765	A	21525	1054	2349	SCPQIIFLSSCLQVASAECWAAA PAVHVGEPPVHAGGLHTERGAD PVIGLYLVHRGGACQPTPTIGSR QTPTLGIHARPRRRATTSLLTLL LAFGKNAVRCALIGPGSLTSRT RPLTEPLGEKERREVFFPPRPER VEHNVESRRWEPRRRGACGSR GGNFP\SPRGG\SGVASLERAES SSTEPAKAIKPIDRKSVHQICSG PVVPSLRPNVAVKELVENS LDAG AVTNVDLKLKLDYGVDLIEVSG\ NGCGVEEENFEGL/TLSLALKH HTSKIREFADLTRVETFGFRGE/ AL*ASLCALSDVTISTCHVSAK\ VGTLTGVDHDKIIPENPPNPH PRGTTVSVKQLFSTLPV\RHKEF QRNIKKKRA\CFPFAFCRDCQFP EASPAMLVPVQPAELTPR\STP\PH PCSLEDNVITVFSS\VKNGPGSS KMICTNGSSPSS
21398	51766	A	21526	2	393	
21399	51767	A	21527	2	165	
21400	51768	A	21528	3	196	
21401	51769	A	21529	1	411	
21402	51770	A	21530	1	1727	GPQGVGRMAEGKAGGAAGLF AKQVQKKFSRAQEKVLQKLGK AVETKDERFEQSASNFYQQQA EGHKLYKDLKNFLSAVKVMHE SSKRVSETLQFIYYSEWYGHEE LKAIVWNNDLLWEDYEEKLVA DQAVRTMEIYVAQFSEIKERIA KRGRKLV DYDSARHHLEAVQN AKKKDEAKTAKAE EEFNKAQT VFEDLNQELLEELPILYNSRIGC YVTIFQNISNLRDVFYREMSKL NHNLYEVMSKLEKQHSNKV FV VKGLSSSSRRSLVISPGVRTATV SSPLTSPTSPSTLSLKSESESVSA TEDLAPDAAQGEDNSEIKELLE EEEIEKEGSEAGSSEDDPLPAC NGPAQAQPSPTTERAKISQEEV LPSSTTPSPGGALSPGQLSSA TEVVLRTASEGSE\RPKKTAS IQRTSAPPRRPPPPRATASPRPCS GNIPSSPTASGGGSAITSPRASL GTGTASPTSLEI\*PNPEAPPEKP VRTPEAKENENIHNNQNP EELCT SPTLMTSQVASEPG EAKKMED KEKDNKLISADSSEGQDQLQVS MVPENNNLTAPEPQEEVSTSEN
21403	51771	A	21531	1	1530	

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21404	51772	A	21532	499	1587	HPRDPEAPSGPLWSASLPALYS QGHANEFDGSNSTSHAVLVLV QKHIKAVLSNKLCLSTSSLVQG VNAHLGTLIWPQPRGYLSRSA IPWFSVPTVTSGLHFPWEVQ*LF LLSCWGKAHQSLPQRMPLLC CQGMWVPEGSMATVGLSQQLF DSALLLLQKAGALNLDITGQLR SDDNLLNTSALGRLIPEVARQF PEPMPVVLKVRLGATPVAHGS TQTTATLRPASPFVGGSWATGP PNSAFPSPPSP/CLVVVNLRTPAS L/SSKGEALREHVCAWWMSQL TVASSNVGFIDTDQVRTLMGTV FEKPLLDHLNGSLGHGELPSLV WVNLYHVAPEIFVYEGYVVISS GTLLPEPEAKTTGRP
21405	51773	A	21533	1385	3111	IAPSEVKEHKMVMLEMLNPIHYN ITSIVPEAMPAATMPVLLLTGLF LLVWNYEGTSSIPPGGYCMGIG PLISHGRFLWMGIGSACNYYN RYGEFMRVWISGEETLIISKSS SMFHIMKHNHYSSRFGSKLGLQ CIGMHEKGIIFFNNNPWLWKTTR PFLYERLCHAPASVRMVTVCA ESLKTHLDRL\EEVTTTESGLCG TCLTLLRRVHGWDTSTNTVFL\G IPL\EESAIVVKIQGYFDAWQAL LIKPDIFFKISWLYKKYEKSVK DLAKDA\IEVLIAEKRRRISTEEK LEECMDFATELILAEKRGDLTR ENVNQCILEMLIAAPDTMSVSL FFMLFLIAKHPPNVEEAIKE\QT VIGERDIKIDDIQKLKVMENFIY ESMRYQPVDLVMAQSL*EG* C*SMGYPVKKGTNIYSWNIGR VHRL*FFPKPNEFTLENFAKNV PYRYFQPFQFGPRGCAGKY/LS AMVMMKAIL\VTLLRTDST*RT LPGTSVFESIQEGYTTCPWHPD\ ETKNML\EMDLYPKETSDRCLG TLRRKAGQYLTGAFSPSPVCS TNHPILCPLVFILHSGTSGPMA
21406	51774	A	21534	129	378	IVCKFSVSTHKNIRAKKPDRLP ECGTQIRKDTLKRVRRTVLHYL C\PPPSVPEIPAWR\GDCSP/VGK EGKCTPDLPNPIELRPV

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21407	51775	A	21535	1	474	MQKQIISVTEVEWYPKYNSNM KEYWSTQNHQFEQLSTHKNIR AKKPDRLPECQTQIRKDTLKR PCPLDRPLWPHITAEQGSKPST WPAPCDP/IF*ANIHLPSLHTGPC RSKVQAHSSRPGCQASSTCVPR LQDLPC*PRFRLTLVDQDARPA APVYQGSRTYPADPDSRPAPVD SGCIISGQADW
21408	51776	A	21536	2	325	
21409	51777	A	21537	2	1011	WAFSITERREFQVYYNSCPSSS WIGDARAFSPDPDTGLYPIYSQ DTQTFRLWLNYNDFPGSPAC KWQAMELLSPQSPFRVDRGEH LPFLVKGARYTLVPAGQEGAL AAWLEALRGQLGRRGAVVSM MDAEGLERSSPDCAMGLSDGE WQLVLNVWGKVEADIPGHG\Q EVLIRLFKGHPETL\EKFDK/FTR HLKSED\EMKASED\LKKHMCH TVLTP\LG\HILRE\KGHH*RQR FKPLGTSSHCHPSTKIPPLK\TL EFHLP\GIAFIQVLAEQAI\PGDFG\ AECPGAQLKQRPWELFARKNNG LPTYKEAGAFQGARALAGFPTP THLGPPGFKKRAGV
21410	51778	A	21538	157	322	
21411	51779	B	21539	1	975	
21412	51780	A	21540	218	388	RKLPLAGLPCINRQHS*SNVNIC FLTPV*KIQN*LQSEQFLPYPTIV IITLCFFAV
21413	51781	A	21541	663	933	GCAGPCLVNQMFGKQYYLGKS HHP\SLVSLNRGAHCTVGKPQG PSGP*KLGYYFKVFP\PCG*FWK YGPSWGMEERAWTGSPLGPGP PLKKV
21414	51782	A	21542	389	1033	NQGLRNLGLCRTCLVNKMFTS SILGKSHRHSLSINQGNALW KAAG\PLPLKAGYC\QGFSPCHS LKYG\SWDEKDLTVPPQDTLKG SVLRWISKRGKPLAVEIEEGHC L\CLPLGTECLGIK\PIVHLFNSE IGE\NRPYGG*DMFCSNGCLG* FL*LPLRCLG\GEKHKSGL/HVHI PVIVPPLELNYDIDSFAHMF\V DLS\LIITLLSCYIPFC
21415	51783	A	21543	82	163	
21416	51784	B	21544	1	211	

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21417	51785	A	21545	71	1086	NMNLSLVLA AFCLGIASAVPKF DQNLDTK WYQWKA THRL YG ANEEGWRR AVWEKNMKMIEL HNG/EKYSQGHGFTMAMNA FGDMTNEEF RQMMGCFRNQKF RKGKVFREPLFLDLPKSV DWR KKG YVTPVKNQKQCGSCWAFS ATGALEGQMFRKTGKLVSLSE QNLVDCSRPQGNQGCNGGFMA RAFQYVKENGGLDSEESYPYV AVDEICKYRPENSVANDTGFTV VAPGKEKALMKAVATVGPISV AMDAGHSSFQFYKSGIYF*PDC ISKNL DQGV LVVGYVFEGANS NNSKYWL VKNSWGP EWGSIN GYVKIAKD KNNHCGIATAASY
21418	51786	A	21546	170	412	LWLSFLLMHW* IPLAAVS VFT VSN/PILDFS* IQLKTPKHFGNLG NTGFLGKQLRLLRLSVSRL HCLLG YRRTQMPPL
21419	51787	A	21547	1	753	
21420	51788	A	21548	125	464	TAVFLTQSLFGGLFTRTRMKFG TMTRI/RGDL PWEINPLSSCSLL HEKDPPTTSGPQTNPQKKHLTN FKSRKVERTKGLLKTHLTKLSH QLKKA WTILLPLSLLRIQACPR NAT
21421	51789	A	21549	1	753	
21422	51790	A	21550	291	671	
21423	51791	A	21551	10	453	TALLLTQSLFGGLFTRTRMKFG AMTRIGDLPWEINPLSSCSLLC EKHPPTTSGPQTDQPKKHLTNF KSETKETCFIHEPKTLAPVTDW EGSLPLVFNHCRDGLSDHSATF QGCQTMQGCLPWSFTLSGKSR FPGAGASTPQPLLLHP
21424	51792	A	21552	740	1010	TAMLLKQSLFGCLFTRTRMKF GAVTRIGDLP*ETNPLSSCSLLR DKDPPTTSSPQTHQPKKHLTNF KSGCSPGRARSQSFLSLCSSTL
21425	51793	A	21553	134	358	TAMLLTQSLFGGLFTRTRMKFG AVIRIGDLLWEINPLSSCSLLHE KDPPTTSGPQTDQPKKHLTNFK SSCSPG
21426	51794	A	21554	392	645	

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21427	51795	A	21555	1	1900	MQNALESLSNRIEQVEERNSEL EDKFFELTQSNKDKEKRIRKYK QSLKEVWDYVKGNLRIISVPE EEENSKSLENIFGEIIEENLPSLA RHLDNQIQEAQRTLWKLIAKRS LPRHIVIRLSKVKTKERILRAVR QKHQVTHLTCKESYKLKVKG WKRHFQMMDTKNEQGKIKNEN HLIISIDVEKASDKIQQRFMIKTL SKIGIQGKYLNVIKAIYDKPTAN ITLNREK/LESIPSEKĒKAFPLRT GTRQGCPLSPLFFNTVLEVLAR AIRQEKEIKGIQIGKEEVKLSLF ADDMIMYLENPKDSSRKLLLEWI KESNKVSGYKTHVHKSVALLY TKQ*\QAENQIKNRNPFIAAKK KKKKKKKKKRNSRIYLTKEK DLYKENYKTLLEIIDNMNKW KHIPCSWMGRISIVKKL*\LQKA IYKLNAILIKIPLLFTELEKTILK FIWKS\NKS\RIAKVILSKKNKSG GITLPDFKLYYTIRKINSKWIKD LNLRPETIQILEDNIGKTLLEIGL GKDFMTKNPKANAKKTKINR WDLIKLSFCTAKGTVSRVKRT HRVGENLPHYTSIHPTIYTIYTS DKGLISRIYNEFKQIVTRTTTCVF LHPPHPKAKTTSYGDQLLGGN
21428	51796	C	21556	10	339	
21429	51797	B	21557	97	1458	
21430	51798	A	21558	1	387	
21431	51799	A	21559	3	604	GSVIAYYWSEFSIPQHLVEEAE RVMAEERVFMLPPRARSLKSFV VTSVVAFRESEGQGWAWDWPP FHGVGLGPGPLQGTGTTPRAQCP REKTTCWPGTSL*IIRKQE*GNG LYQEMLYSPSYSSATDSKTVQR TQDNSCSFLHARGVELMRFTT PGFPDSPYPAHARCQWALRGD ADSVLSLTFRSFDLASCDEARS DLV

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21432	51800	A	21560	1000	2084	FRGTPVQRRGGGWADLPGRCE LGRRLRSEEQARRVHKAPS/DF GTG/LKENTGKVNGLLEEGVEFL PVNNVKKVEKHGPGRWVLA AVLIGLLLVLGIGFLVWHLQY RDVRVQKVFNGYMRITNENFV DAYENSNSTEFVSLASKVKDAL LYSGVPFLGPYHKESAVTAFM WVWREGSVGCTPDWLGVGSG YSVWGTRKREMVLEVLDWRAK EGPRCVLLEGSVIAYYWSEFSIP QHLVEEAERVMAEERVVMLPP RARSLKSFVVTSVAFPTDSKT VQRTQDNCSFGLHARGVELM RFTTPGFDPSPYPAHARCQWAL RGDADSVLSLTFRSFDLASCDE RGSDLVTYNTLSPMEPHALV
21433	51801	A	21561	3	2820	TGALILQKGEIRVINQTTCE PQQITPRMMCVGFLSGGVDSC QVPPGQEGGRQFPLKETNNRK GRLPKRLRPHTWCCYSLECSSY SLRCTEDTWTEQKVNGLLEEG VEFLPVNNVKKVEKHGPGRWV VLA AVLIGLLLVLGIGFLVWH LQYRDVRVQKVFNGYMRITNE NFVDA YENSNSTEFVSLASKVK DALKLLYSGVPFLGPYHKESAV TAFSEGSVIAYYWSEFSIPQHLV EEAERVMAEERVVMLP
21434	51802	A	21562	111	465	
21435	51803	A	21563	2	197	
21436	51804	A	21564	359	405	EMQSRED*RK*YL*RIVNCVPL RERLGYVCGGLGERSKEGTLWI YQGLQKSQDTGRV
21437	51805	A	21565	208	287	IVSRSEKGWVMYVEGWEREAR REHYGYIKGYKNHRIHMMQSS KALV*LEDLRKHI*IFRCVFSNP QVILML
21438	51806	C	21566	141	305	
21439	51807	A	21567	170	973	RMAACRALKAVLVDSLGLHI EDAAVPGAQEALKRLRGASVII RFVTNTTKESKQDLFKRLRKL GFDISEDEIFTSLTAARSLL* KQVTPMLLD*SGHYLIFKGIQ TSDPNAVVMGIGTRTFSLSKF WNQAFRLLLGWSTSDSNSQSQ GFQEFKMGLALGPWTIL*LL*K YATDTKATVVGKPEKTFGLGSI AGHWLLNLEEAVMIGDDCRG\ DVGGAQDVGMGLGVKTGKYR ASDEEKINPPPYLTCESPHADV

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21440	51808	A	21568	42	211	
21441	51809	A	21569	92	366	AGSEMRPGLTWACSLARLLLSP SFIKHWFLSCLLSCSRSGSGYA QWCPPHQSAASAAGHCQTPAHA QAYLSSPPQMDHSSVRSLLLEAC QTY*SASAAGHCQTPAHAQAY LSSPPQMDHSSVRSLLLEACQTY
21442	51810	A	21570	1	834	
21443	51811	A	21571	3	835	
21444	51812	A	21572	1	1649	MPIVLVDWSDIREQKRLMVLR ASVALHGRSVTLYEKAFPLSEQ CSKKAHDQFLADLASILPSNTT PLIVSDAGFKVPWYKSVEKLG WYWLSRVRGKVQYADLGAEN WKPISNLHDMSSSHSKTLGYKR LTKSNPISCQILLYKSRSGRKN QRSTRTHCHHPSPKIYSASAKEP WVLATNLPVEIRTPKQLVNIYS KRMQIEETFRDLKSPAYGLGLR HSRTSSSERFDIMLLIALMLQLT CWLAGVHAQKQGWDKHFQAN TVRNRNGSLLTNWPSVPPTIKE EENSEEELAAATTSKEQEPIGTD LDAVRTPEPLEEFPKREDQEGS PPETSLPYKWVVEAANLLIPAV GSSLSEALDIESDPDAWCDLS KFDLPEEPSAEDSINNSLVQLQA SHQQQVLPPRQPSA\LVPSVTEY RLDGHTISDLSSSRG\ELIPISPS TEVGSGSIGTPPSVLKRQRKR VALSPVTENSTLSFLDSCNSLT PKSTPVKTLRFS\PSQ\FLNFWN KQDTLELESPSLTSTPVCSQKV VVTTPLRDKTPLHQKHA

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21445	51813	A	21573	59	2384	PRPGSRSGLCRRAGERGAVRAG GMSRRTRCEDLDELHYQDTS DVPEQRDSKCKVKWTHEEDEQ LRALVRQFGQQDWKFLASHFP NRTDQQCQYRWLRVLNPDLVK GPWTKEEDQKVIELVKKYGTK QWTLIAKHLKGRLGKQCRERW HNHLNPEVNKSCWTEEDRIIC EAHKVLGNRWAEIAKMLPGRT DNAGKNHWNFTIQK/RKGDTG GFLREYKD*KPPVYLPLAELEDK DGLQSAQPTGQRSLLTNWPSV PPTIKEEN\SEEELAAATTSKE QEPIGTDLDAVR\TPEPLEEFPK REDQEGSPPETD/SLPYKWVVE AVNLLIPAVVS\SLYEALDLIGS\ DPDAWCDLSRFDLPEEPSIEDSI NNS\LVQLQAS\HQQQILPPROP SA\LVPSVTEYRLDGHTISDLSR SSRGELIPISPSTEVGG\SGIGTPP SVLKRQRKRRVALSPVTENSTS LSFLDSCNSLTPKSTPVKTL PFS PSQFLNFWNK\QDTLELESPLA DYPPQVCSQKVVVTTPLHR\DK TPLHQKHA\AFVTPDQKYSMD NTPHTPTPFKNALEKYGPLKPL PQTPHLAEEDLKEVLRSEAGIELI IEDDIRPEKQKRKPGLRRSPIKK VRKSLALDIVDEDVKLMMSTL PKSLSCRTTAPSN\SS\TLTSGIK EDNSLALNQGLLAGPSPRKAAC VPEGPESHFHGQLAPYVPVPGK
21446	51814	A	21574	190	889	SLPRRLESPGRLAMAARGVIAP VGES/LCRYAEVPCSPSAKRPDA DVDQQRLVRSLIAVGQGVAAAL AFAG\RYAL\RIWKPLE\QVITET AKGRFQTPRFSSY**GG/FLNII* LRREA\GLILGVSP\SAGKAKIRT \AHR\RVMILESPQIKGGSPYVA AKINEAKD\LLETTTKRLMLKD HTEGKKNEGTSKKKKSPAKYS KTWSFLIFYMGFDHSLIFRPLSC ITNKMLIVLLFIIF



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21447	51815	A	21575	2	652	EGYIC/RHFTGSSALLTRTHITY GVIANVAVVRINSPNS\RM LAA CKTLQEVTQLS QEAQRIVEKLE KSTKPIVAAINGSC LGGGLEVAI SCQYRIATKDRKTV LGTPEVLL GALPGAGGTQRLPKMVGVPAA LDMMLTGRSIRADRAKKMGLV DQLVEPLGPGLKPPEERTIEYLE EVAITFAKGLADKKISPKRDKG LVEKLTAYAMTIPFVRQQVY
21448	51816	C	21576	98	316	
21449	51817	A	21577	35	247	
21450	51818	A	21578	1	2391	LQLKMVACRAIGILSRFSAFRIL RSRGYICRNFTGSSALLTRTHIN YGVKGDVAADRINSPNS\ VNT LSKELHSEFSEVMNEIWASDQI RSAVLIS SKPG\CFIAGADITML AACK\TLQ\ EVTQLS QEAQR\IV EKP*KSPQSLIVGCPSNGSCLGR RTLRLPISSPQYRIATK\DSKTVI *VPPEVFLGGPLPGRQGGHTK GCPKMGGVCLPAFGHECLTGR SIR\ADRAK\KMGLVD\QLVGTP GTQGLKPPEERTIEYLEEVA\ITF AKGLADKKISPKRDKG\LVEKL TA\YAMTIPFVRQQVYKKVEEK VRKQTKGLYPAPLKIIDVVKTG IEQGS DAGYLCESQKFGE L VMT KESKALMGLYHGQVLCKKNKF GAPQKDVKHLAILGAGLMGAG IAQVSVDKGLKTILKDATLTAL DRGQQQVF KGLNDKVKKKAL TSFERDSIFS NLTGQLDYQGF* KRPDMGELKAVF\EDP*SLSHR VLKGVGSR*FPDHWYSLPSNT SALPISEIAAVQQKT*EG*LGMH YF\SPVDKMQLL\EIITTEKTSKD TSASAVA\VGLKQGV\VII\VK DG\PGLLVTYQGVFAPMMS\EVI RILQEGS\ VDPKKLGFPWTT SFG FPVG\AATLV\DEVGCGMLAK HVAEDLGKVFG\IERFGG NPE LLTQMVS KGFLGRKSGEGLLT SSGRVVKRKILNSTMD\SI*ASL
21451	51819	A	21579	119	387	VEDSKEIFSSA*DYLSTHSHKHP ASHESYHVNP NL CNPVAPTSGA HSIV*KWPSWLGTVAHSCNPSN FGRPRRADCLSSRSSRPAWPTR
21452	51820	B	21580	73	3177	

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21453	51821	A	21581	1399	5140	SGEPERALRGAAMRPSGTAGA ALLALLAALCPASRALEEKVC QGTSNKLTQLGTFEDHFPQPS QRMFNNCEVVLGNLEITLCER NYDLSFLKTIQEVAGYVLIALN TVERIPLENLQIIRGNMYEYNSY ALAVLFNYDANKTGLKELPMR NLQEILHGAVRFSNNPALCNVE SIQWRDIVSSDFLSNMSMDFQN HLGSCQKCDPSCPNGSVCWGAG EENCQKLTKIICAQQCSGRCRG- KSPSDCCHNQ
21454	51822	B	21582	82	305	
21455	51823	A	21583	122	219	YAKRIYDVYYVHTAYTCTFHA *KIRGMTQ*NW
21456	51824	A	21584	404	1228	GLAAFLARARGRRRKELPGSPR PLPQLPAGGPSRW RAMRPSQR RPPTLPMAASPAHWPRESLVLY HWTQSFSSQKVRLVIAEKGVC EERDVSLPQSEHN/EMPWFMR NLGEEVPV\IIHRDNIIQ/CTMDQ IHLTMWERTFHRERHVGALMP EVGSRAA\PRVLQY\RELLDALP MDAYTHGCILHPELTTDSMIPK YATAEIRRH LANATTDLMKLD HEEEPQLSEPYLSKQKKLMAKI L\EHDDVSYLKKILGELAMVLD QIEGGAGRKRKLENE
21457	51825	A	21585	3	1194	KNLSVKLSENGTLKNCVVADS ETDIDVYMYTRVYVYIPRIENS WNDTIKLVGTATISAVGGDIDA QGEWAFPLLGIPSLSPGPEWKV RVVIPDKGLVCEERDVSLPQSE PKEPWFMRJNLGEEVPV\IIHRD NIISDYDQIIDYVERTFTGEHV ALMPEVGS LQHARVLQYRELL DALPMDAYTHGCILHPELTTDS MIPKYATAEIR/SDI*PNATTDL MKLDHEEEPQLSEPYLSKQKKL MAKILEHDDVSYLKKILGELA MVLDQIEAELEKRKLENEGQK CELWLCGCAFTLADVSLGATL HRLKFLGLSKKYWEDGSRP\NL QSFFERVQRRFAFRKVLGDIHT TLLSAVIPNAFRLVKRKPPSFFR ASFLMGSLG\GMGYFALHGTSR

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21458	51826	A	21586	1	929	MDPSIYFLPSKREGHLQAYIRDS VPEDPLILIFFSASSDQRPWLKA PHLPALRGFRGGGAGGGAQSR TTEDYVAWAKGNSPTSPSPRSR GGCSAKLSGPRRPPRRPGRLFN MAASANSVSRAWRTESPEGLE SLHSTLSAISVSRPEGGAELSD TADTMGFGDLKSPAGLQVPTI TWRTRATSRGMCHHKQMWQY LKPCPAHRLPTCVMPYV/GYNH IKSYEKEKASLPGVKKALGKYG PADVEDTTGSGATDSKDDDDID LFGSDDEEESEEAKRLRE/DTSC TI*IKESQKTCTCCQVFHLTRCE
21459	51827	A	21587	1	2405	MALRVVRSVRAVLCSLHVACE KVGMPQIPRFCYHERLSVAGNC RMCLVEIEKAPKDQSMFMFGND RSRFLEGKRAVEDKNIGPLVKT IMTRCIQCTRCIRFASEIAGVDD LGTGTRGNDMQVGTYIEKMFM SELSGNIIDICPVGALTSKPYAFT ARPWETRKTESIDVMDAVGSNI VVSTRTGEVMRILPRMHEDINE EWISDKTRFAYDGLKRQRLTEP MVRNEKGLLTYTSWEDALSRV AGMPPALALQSAEIAASARPPP RLGSEEPLCLAAHRLGCEEPLC LAASLESEERLCPAAIPPGNLRY VFISAKTDKYSKLAPVEWVTV EKVPENVEVTLELGNRQSRDR VSRIPGNAIVWFTGFKWKKTV TTLWFLNLAIAADFIFLLFLPLYIS YVAMNFHWPFGIWLCKANSFT AQLNMFASVFFLT/GDQPGPLY PLDPSCLISSASNPQELSDCHYI HLAFGFSNWRSCPVLPGHCGV Q*SYSL*QFSEA*S*PHFDQAP CSDLGEIYHWLSLFPANNEYLL LVSHLQGEEAKHPDLQ*AFLDN SGCGCGLCGLLDLSLSPV*HLGA HHSPQ*LFPPCDAGWNPPHWF GIPQ*LLEPHPLCPN**EVPSSLP VLSC*DTQVHTVGSQFLWQVL KEAKKPMVVVGSSALQRNDGA AILAAVSSIAQKIRMTSGVTGD WKVMNILHRIASQVAALDLGY

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21460	51828	A	21588	1	2065	MLRIPVRKALVGLSKSPKGCVR TTATAASNLMIRVFVDGQSLMIV EPGTTVLQACEIRIGMQIPRFCY HERLSVAGNCRMCLVEIEKAPK DQSMFMFGNDRSRFLEGKRAVE DKNIGPLVKTIMTRCIQCTRCIR FASEIAGVDDLGTTRGRNDMQ VGTYIEKMFMSSELSGNIIDICPV GALTSPKYAFTARPWETRKTES IDVMDAVGSNIVVSTRTGEVM RILPRMHEDINEEWISDKTREA YDGLKRQRLTEPMVRNEKGLL TYTSWEDALSRVAGMLQSFQG KDVAAIAGGLVDAEALVALKD LLNRVDSDTLCTEEVFPITAGA GTDLRSNYLLNTTIAGVEEAD VLLLVGTNPRFEAPLF*C*EFR KSWLHNDLKVALIRAVPVDL TYTYDHLGIDSPKILQDIASGK/ SHPFSQVLKEAKKPMVVLGSS ALQRNDGAAILAAVSSIAQKIR MTSGVTGDWKVMNILHRIASQ VAVLADLGYPGVEAIRKNPPK VLFLLGADGGCITRQDLPKDCF IIYQGHGHDVGAPIADVILPGA AYTEKSATYVNTGRAQQTKV AVTPPGLAREDWKIIRALSEIAG MTLPYDTLDQVRNRLEEVSPL VRYDDIEGANYFQQANELSKL VNQQLADPLVPPQLTIKDFYM TGEVTEINEALAENPGLVNKSR YEDGWLIKMTLSNPS

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21461	51829	A	21589	56	2352	ATRPPRGSSWCQFSRTASAAP GRSNMLRIPVRRALVGLSKSPK GCVRTTATAASNLIIEVFVDGQS VMVEPGTTVLQACEKVGMQIP RFCYHERLSVAGNCRMCLVEIE KAPKVVAACAMPVMKGWNIL TNSEKSKKAREGVMEFLLANH PLDCPICDQGGECDLQDQSM FGNDRSRFLEGKRAVEDKNIGP LVKTIMTRCIQCTRCIRFASEA GVDDLGTTRGRNDMQVGTYIE KMFMSELSGNIIDICPVGAL\TS KPYAFTARPWETRKTESIDVMD AVGSNIVVSTRTGEVMRILPRM HEDINEEWISDKTRFAYDGLKR QRLTEPMVRNEKGLLTYTSWE DALSRVAGMLQSFQGDVAAI AGGLVDAEALVALKDLLNRVD SDTLCTEEVFPTAGAGTDLRN YLLNTTIAGVEEADVLLVGTN PRFEAPLFNAWIRKSWLHNDLK VALIGSPVDLTYYDHLGDSPK ILQDIASGSHFPSQVLKEAKKP MVVLGSSALQRNDGAAILAAV SSIAQKIRMTSGVTGDWKVMNI LHRIASQVAALDLGYKPGVEAI RKNPPKVLFLGADGGCITRQ\ DLPKDCFIYQGHGHDVGAPIA DVILPGAAAYTNKSATYVNTG *ASASIMLAVTT\PGLSREDW\KI IRALSEIAGMT/LFPYDTL/DIQV RNQIGKKSSPNLVRYDDIEG\A
21462	51830	A	21590	246	761	MRLQGAIFVLLPHLGPIVWLF TRDHMSGWCEGPRMLSW\CPF LQSLICLLQTALYSVVG*VLVS HTWPWYPMGWEQVLYI*ITYA VQLTISWTVLVFFTVHNPGLV RHTVLSSRSNVGEGETTWLQK HILAALLLPYLAWLTVTSALT YHLWRDSLCPVHQPQTEKSD
21463	51831	A	21591	1	1497	
21464	51832	A	21592	1	1731	

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21465	51833	A	21593	1	6626	PRSLCFSLWAEAAVLADGGLR RRRRLLRGTMSASFVPNGASLE DCHCNLFCLADLTGIKW*KYV WGGPTSAPILFPVTEEHPILSSSS RCLTAHVLGVRRRDQRPERRV L*IFWWGEDPVLLTLFTMTYQ KKKMECGRMDPFMNAVLCFS KAVHNLLERCLMNRNFVRIGK WFKVPYEKDEKPINKSEHLSCS FTFFLHGDSNVCTSVEINQHP VYLLSEEHITLAAQQSNSPFQVIL CPFGLNGTLTGQAFK
21466	51834	A	21594	1263	1906	AVRGMVRNARAVLKTGGTFLS PALEPLVAGGSGG/EFSQLGAEE RKAIRF/AIDHVDRRVPVLIGT GG/TNARETIELSQHAQQAGRT ASTIDVAHLRSMIHTVK/GAHP HFTVLCGYDDHLF/NTLLGGD GAISASGNFAPQVSVNLLKAW RDGDVAKAAGYHQTASIPDQLI HPYESRLFKCQHVLTRGITSF*L LCPPGSLRRQGISTYHSLLN
21467	51835	B	21595	113	484	
21468	51836	A	21596	300	780	KSGTNETIRRKARGGKIK\MDD LRG\PRCQ*EPWKRLLMTIMPS CLHLWAQNTTVSILSFVDKDLL EPGCSVLLNHKVHAVIGVLM DTDPLVTVMKVEKAPQETYAD IGGLDNQIQEIKESVELPLTHPE YYEEMGIKPPKGVHPFGPTWPR VKPFCPRQ
21469	51837	A	21597	2	840	AIEHCQSGDNPESTRRGFLQW LGRNPALVPHPGRTGHSQPPVT FHRHPSDCQRSPAGRFKGGPSH RGQPPPFHKSPMTTASHLARC ARTYHQDSEAAINR\QINLE\Y ASYVY\LSMSYYFDRD\DVALK NFAKYFLHQSHEEREHC*ENL MKACRTNEGWPNSFQDIKET KTCDD\WESGLNA\ME\CALHFE KKC*IKSLLELA\HKLIATDKN*PP ICVDFI*DTFTLNEQ/V*KAIKRI WGDH/V*PKLWRKMGSAPNLG FGEYLF*QSTPWGSDNES
21470	51838	A	21598	3	390	

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21471	51839	A	21599	1	483	FQLEVTPQNITLNPFGGGPVFS WRDQAVLRQDGVVVTINKKR NLVVSVDGDTFEVVLHRVWK GSSVHQDFLGFYVLDSHRMSA RTHGLLGQFFHPIGFEVSDIHPG SDPTKPDATMVG\LQKDYSKDP WHGAEVSCWFIHNNAGLIDG AYTDYIVPDIF
21472	51840	A	21600	1	1521	
21473	51841	A	21601	1	837	
21474	51842	A	21602	3	310	EVRLNLSSQALRMWLDYGFVT PLTSMISIRGMADQDGLKPTIDK PSEDSPPLEMLGPRRTFVLSALQ PSPTHSSSNTQRLPDRVTGVD* VVT*PYVLCWNLC
21475	51843	A	21603	62	462	MPLPLPSAFVLSALQSPSPHSS NTQRLPDRVTGGFSVNGQLIGN KARSPGQVHDGTYFGRGLIANP ATDFQLEVTPQNITLNPFGGGP VFSWRDQAVLRQDGVVVTIN KKRNLVVSVDGDTFEVVLHR VWK
21476	51844	A	21604	37	2883	SMDGAMGPRGLLLCMYLVSL ILQAMPALGSATGRSKSSEKRQ AVDTAVDGVFIRSLKVNCKVTS RFAHYVVTSSQVNTANEAREV AFDLEIPKTAFIGDFAVTADGNA FIGDIKDKVTAWKQYRKAAS* EKA\GLVRASGRTMEQFTIHLT VNPQSKVTFQLTYEEMLKRNH MQYEIVIKVKPKQLVHHFEIDV DIFEPQGISKLDASFLPKELA AQTIKKSFGKKTSSNGSHSRF QGHVLFRTVSQQQ
21477	51845	A	21605	1	1008	
21478	51846	A	21606	1	435	
21479	51847	A	21607	1	676	IRHQGAAAEQEGDAETPGSVERR GRRAGAEDGMSQAPGAQPSPP TVYHERQRLELCAVHALNNVL QPAA\FSQEADEICKRLAPDSR LNPHRSLLGTGNYDVNVIMAA LQGLGLAAVWDRRRPLVPS WPCPKGLG*ILN\LPSPVSLGLL SLPLRRRHRLRWPCARL\TVSY YNLDSK\LRAPEGPGGLRTE\LR GLSLAAALAQGLCEVLLVVT EVEEKGSWLRTD
21480	51848	A	21608	89	316	ELLSPLL VAPGPSDLTVTGLKSF SSPSLCSLNTLLAGTSRLMVA*L YESLGQGEDLGLLTPGPEFLSIS SYCNFM

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21481	51849	B	21609	1	1920	
21482	51850	A	21610	1	1727	LPRVLGHSGHRGGLSSRRSQGL VSRFRLRALCGAGSDMWRLPG LLGRALPRTLGPISLWRVTPKS SSPDGPQTTSSTLLVPVNLDR SGPHGPGTSGGPRSHGWKDAF QWMSSRVSPNTLWDAISWGTL AVLALQLGR\HIHFQAFLAAGP\ KRVE\HCS\WHSPL\DRFFSSPL WHPCSSLRQHILPSPDGPAPRHT GLK/ENPRLGKE\EASAQPRNFS HNSLRGARP\QDPSEEG\PGDFG FLHASSSIESEAKPAQPQPTGEK EQDKSKTLSLEEAVTSIQQLFQL SVSIAFNFLGNQMDPAPRQEGT ENMKSGDHTAAFSYFQKAAAR GYSKAQYNAGLCHEHGRGTPR DISK/SV*KAGLYYQLAASQGH SLAQYRYARCLLRDPASSWNPE RQRAVSLLKQAADSGLREAQA FLGVLFTEKPYLDEQRAVKYL WLAANNNGDSQSRYLHGICYEK GLGVQRNLGEALRCYQQAAL GNEAAQERLRALFSMGAVASPG APTNLTVTGLKSFSSPSLCSLNT LLAGTSRLPHASSTGNLGLLC RSGHLGASLEASSRAIPHPYP\ LEKNVVRLGFG
21483	51851	A	21611	1104	1680	LATPDVRYCYLSTYTSLPNPAR RFFLFSLCKFSSHKTATVKK YNKSEYPWDLVKAHLQGAFTS NITFDISELQNKILDNRHTQEF QPSLEDWTEFQEGLESNPWTY LKYHSNILYVVLGVMLFCLCLL FIVCKIGWTANRRMRAAQPL TFFQLIHKQGDMQGAEGPWDV TNSAFHWRLYDQTANCLS
21484	51852	A	21612	364	824	LCIILFKQLSTWRTGCAQPTKR GYTELQTEGPMKSMFLWLGE QVQILQLAHSNCIVILTTLV/FCV TNLE*FIVCKIGWTANQKMGA AKPGLTFFLLICK\QKQDM*GA KGPWDVINSAFH*RM
21485	51853	C	21613	196	504	
21486	51854	A	21614	3	142	



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21487	51855	A	21615	1178	2285	IVWLMTTGGQCRY*LSALIKL* DR/WFQRLCIHVIQRLRPVHAH LYLQPGMEDGNSFRQMFRSTR SLHIPTRDLPLSPDTTVVLHQVY NVLLGLLSRAKLYVDAAVHGT TKLVPIYFSFMTYCLISKTEKLM FSTYFMDLWNLFPKLPSEPAIA TNHNKQALLSFWYNVCADCPE NIRLIVQNPVVTKNIAFNILAD HDDQDVVLFNRGMLPAYYGIL RLCCEQSPAFTRLASHQNIQW AFKNLTPHASQYPGA VEELFNL MQLFIAQRPD MREEELEDIKQF KKTITSCYLRCLDGRSCWTT LIS AFRILLESDEDRLLVVFNRGLIL MTEGKDTFMIVCC*TTSFLIIS SIYYAELQSTVKNLLKH
21488	51856	A	21616	1	436	
21489	51857	A	21617	369	508	
21490	51858	A	21618	2150	3120	DLRALALLSVHTPKQLNPALI PTLQELLSKCRCTCQQNSLQE QEAKERKTKALALWTTITFRV GGGSNTLGVTGLRVVCSAEPK YKC*KQN*LPTSPNVILMTFRE VSLACVFTDDEGATPIKRRRV SSDEEHTVDSICSDMKTETREV LTPSTSDNETRDSSIIDPGTEQ DLSPENSSVKEYRMEVPSSFSE DMSNIRSQAEEQSNNGRYDD CKEFDLH\CSKDSTLA\EEESE\ FPSTSISAVLSDLADLRSCDGQA LPSQDPEVALSLSCGHSRGLFS HMQQHDILDTLCRTIESTIHVVT RISGKGNQAAS
21491	51859	A	21619	2	4049	EEENGREYKFDVSSELLEWIWH DNMQFLQDKNIFEHTYFGFMW QLCSCIPSTLPDPKA VSLMTAK LSTSFVLETFIHSKEKPTMLQWI ELLTKQFNNSQAACEWFLDRM ADDDWWPMQILIK\CPNQIVRQ MFQRLCIHVIQRLRPVHAHLYL QPGMEDGSDDMDTSVEDIGGR SCVTRFVRTLLIMEHGVPKPHS KHLTEYFAFLYEFAMGEEESQ FLLSLQAISTMVHFYMGTKGPE NPQVEVLSEEEGEEE
21492	51860	A	21620	58	219	

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21493	51861	A	21621	195	1187	RVPRTWLLPSFCASRSRENEGL SEFGASQTVTPSPASSVQAW EAMEPEFLYDLLQLPKGVEPPAEE ELSKGVCKKYLPTSRKDPKFE ELQKVQQEWINATLLPEHIVVR SLEEDMFDGLILHHLFRKWAAL KLEAEDIALTATSQKHKLTVVL EAVNRS\CSWRSGRPSGA/WEST WNKDLLSTLHLLVALAKRFQP DLSLP/D/HTNVQVEVITIEVAA NFVNQKLDRLGLSVQNLDTQV GTGVILLLLIGQLEGFFLHLKEF YLTNPSPAEMVSFVTLALELL/I GRGPAQLPC/LALKVSAT/MDA KSTLRVLYGLFCKHTQKAHRD RTPHGAPN
21494	51862	A	21622	96	1350	AAGLLPPGLVPEDPRRTRNLLP FGIQGPPFALSRLPFCVESGWA WEAMEPEFLYDLLQLPKGVEPP AEEELSKGGKKKYLPTSRKDP KFEELQKPA\VLMEWINATLLP EHIVVRSLEEDMFDGLILHHLF QRLAALKLEAEDIALTATNQK HKLHWCWRP*TGVCWSRSGR PSGA/WESIFNKDLLSTLHLEA LAKRFQPDLSLPTNVQVEVITIE STKSGLKSEKLEEQLTEYSTDK DEPPKDVFDLFLAPEK\NA VKEAIVNFVNQKLDRLGLSVQ NLDTQFADGVILLLLIGQLEGFF LHLKEFYLTNPSPAEMLNVTL ALELL/IGRGPAQLPC/LALK/TI VNKDAKSTLRVLYGLFCKHHTH KAHRDRTTPWSPELTLTASKAQ SLPVSPAGGPEAAGCPPTVPLFP
21495	51863	A	21623	1	87	
21496	51864	A	21624	45	277	
21497	51865	A	21625	171	511	GKFRYSPALHSWATRLRTSTAA GHCCMNSSQNKLSKSWAMTR HALNVKRFTIFQSHQCSLSKKV NLSLFQQGAERLPSQELTHLLL QEVRC*RDFFPEEATWTGLPV LPSQ
21498	51866	A	21626	276	387	
21499	51867	A	21627	1	218	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence ( X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21500	51868	A	21628	139	9009	ESSEDVSGGLPFLVDLGRSVC VSLFHVKNPVQWDQKLPKKKK PVRSYCGSKLLQREVIQPDVME EMVVSCVIKHLNLVDALQSLIN FQYQEEHAAEYDLLCKIMGETF KKLNAMERQLQNKMKELLELC SMKEVSFDGNDLENMVLSLRE KFLQEVNSLIQKPSHPLAKTKT LVKSLMNRAELLHVITIAAQSG LTRSISGTPAETPACKSASETKV ISHAVRQPVFLRSMSAPSDLEMI GNEDLEFTRANQRR
21501	51869	A	21629	1697	2056	
21502	51870	A	21630	237	1545	KPENKKSRTGRNRTKSTPGYRA /RPAAATARISARSTK*WKNSL AGRWARHICWTLWALIPRITLR /HVMAAGFPQRMQKDYRDAID ALCDANRFGQKKRLGFWRYKE DSKGVGLCSYLLIGFYTDPKN GAAAMKAFVVTRVGDVFLAFA LFILYNELGTLNFMREVELAPA HFADGNNMLMWATLMLLGGA VGKSAQLPLQTLADAMAGPT PVSALIHAATMVTAGVYLIART HGLFLMTPEVLHLVGIVGAVTL LLAGFAALVQTDIKRVLAYST MSQIWLRCSSRLACRHGCCGSL ECLQHEGIPYSRMGRPHTTSAL RRFTSEFGMGSACFTLGYFFMY KQAVILLMLFTASVSAACTLPI AIDHGTGPAELLTVALRYNLS SYDAAYLELALRLEIPIAKGSPN FAFRRAATGNEGIMHFLRNK GILWI
21503	51871	B	21631	1	1440	
21504	51872	A	21632	525	716	PKTPAGPVEPMHQVPSSKRVPT RDKRTRGDSTRHSGQSKPTKRY NHAYEI*PRIKWFIPDAGC
21505	51873	A	21633	8	136	
21506	51874	A	21634	1476	1611	GCDPAPGLPAPPHT/QP/DH*NQ RQIGIG*FLTGTVPATHLRQLA AA
21507	51875	A	21635	461	827	AALQMRDTS DPADCGEQSVCG YSEPVPEYACFHRIQDLHDTET AACFSHAGSGRTHV*SQSEHAA GSVLWSYRYRC*TG TAGYTDR FSQQRCHVRRGISPRCWPEYQS RSWCRLFPSPESAG

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21508	51876	A	21636	1	3735	MAEASVFQTVDPWRPGFATIPD FLKERYDKTTRIIIDFCFLIATGV CFLPIVLYSGALALNSLFHVGES LQISHGAAIWLLVILLGLAGILY AVIGGLRAMAVADSINGIGLVI GGLMVPVFGLIAMGKGSFMQG IEQLTTVHAEKLSIGGPTDPLP IGAAFTGLILVNTFYWCTNQGI VQRTLASKSLAEGQKGALLTA VLKMLDPLGLKPDLLAYNTAL RALIPQRLIAFDDAVRSTLKEEE KLVNSSDWGY
21509	51877	A	21637	840	1064	WSVENYHRRGYGGHIPLPAASP AVAAQWCDAGR*VPPAARRW HRHQVYLTYLITLDRGLSRARF CIPSAHCSAY
21510	51878	A	21638	979	1409	RLVVDIFHDNRHAFPRRLVSDA AAHNACTQHRGLFRGFNVFGE FLRFAFYILIVKENADQCAGFV GMRQRDKTFVFQV*GFFTTKT GRSFNGFYCGDGGGRIMF/LPLFV RPSL*RW*SSWWLQSCSVLVVP ASADVLLSSRGRR
21511	51879	A	21639	903	1397	LPTLPMVMCCTTPTSSRKHWM *NPSTLT/HAWVPYTNFSPIYEG KCGMSGARVEGKVIYETQSTH KLLAAFSQASMIHVKGDVNEE TFNEAYMMHTAASPHYGIVAS TETAAAMMKGNAGKRLINGSI ERAIKFRKEIKRLRTESDGWFF DNAAGYIDTITLGGPS
21512	51880	B	21640	1	5305	
21513	51881	A	21641	129	723	LITARGQVADRNLRLDLLAPWV PDAPSRALPEMTLDSRVAAA DLFVARIGHQADGRRYIPQAIA QGVAIIAEAKDEATDGEIREM HGVPDIYLSQLNELLSALAGRC YHEPSDNRLRVGVTGTNGKTT TTQLLAQWSQLLGEISAVMGT VGNGLLGKKKEKAAIQYNTLC KSCTLTHPKPHNESDH/IRCRC*

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21514	51882	A	21642	1	2230	MMRTSGGTRDNESSDDDERER ENRLSDEKSNEYANLVGGERY EPDEENPMLGFRGAGRYVSDSF LRLCSSLEIVKARETVALIQGLK H\DLLADDTALRALIPQRADRF MNAVRSTLKEEEKLVNSSDWG Y\DAQAFARWRPEYGYFAKQA GFTVKTSASLAALWQVVNQIG GKERYFFGNILWQTRALMDRAI GHKLAKGRPEREYLQTGDAYD SWKVIVVEPEKQLTLLFGMKAP GLGRLCFSLEDKGDYRTIDVRA FWHPHGNRAEREKPRFQPYSTR KSFIGNMMLPMSIMPPVFRRI CPLGVARLGKFRDPVYLVCVFT RQIFRYYTSGDEFLQINTTGGED IDDIDDIKLFVYEESYGISKESH WREAINAKAMGAMTLNWQEK RWQRFFNSEEPGNIEPVYMLEK VENQNHAKWEVHNFTMGYQR QVTEDTYEYLLLVVGVPPVD NIHPMTKDEAGVWSWRTPIK GNLYEYFFNVDGVRSIDTGT MTNPQRQVNSSMILVPGSYLDT RSVAHGDLIAITYHSNALQSER QMYVWTPPGYTGMGEPLPVLY FYHGFGDTGRSAIDQGRIPQIM DNLLAEGKIKPMLVVIPDTETD AKGIIPEDFVPQERRKVFYPLNA KAADRELMNDIPLISKRFNVR KDADGRALAGLSQGGYQALVS GMNHLESFGWLATFSGVTTTT

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21515	51883	A	21643	1	1549	MDASGHHVRGFASGMGCCRV RRTMKRETGGRLAGFRLVGT LGQHLGAHRSASKGHQILAAA RHVDRLAK\QLA\NVSCHEVD LSWPDNLPALLQDIDTVYFLVH SMGEGGFIAQERQVALNVRD ALREVPVKQLIFLSSLQAPPHEQ SDHLRARQATQAEIRSEGNVPV TELRAEIIVGAGSAA\LEV MRD MVYNLPVLTTPRWVRSRTTPIA LENFLHYLVALLDHPASEHRIF. EA\AGPEVFVSQQQFEHMAVS GKR\RWFDPPSPLPTRWISVWF LNVITSVPPTTARALI\QGLKHD LLADDTALRALIPQRLIAFDDA VRSTLKEEEKLVNSSDWGYDA QAFARWRPEYGYFAKQAGFTV KTSASLAALWQVVNQIGGKER YFFGNILWQTRALMDRAIGHK LAKGRPEREYLQTGDAVDSWK MIVVEPEQQRTL\LFQM QAPGL GRL/CCFSLEDKGDY\RTIDVRA FWHPHGM PG/L*F*WLLMIPAH LFIFRGM AKQIARLAVPSTD LID
21516	51884	A	21644	201	363	SLRGSRTAASPCWAVPVHVP HGAGEPAHHPGHQP*LPPPHPH VLLPLQPVLA
21517	51885	A	21645	3	440	PFSLPFSLGLTASLFMNTWLAIS SNCDGFIPASPACFCSFLLMSSA L*RTKAM*IMC*FSGLSGSKGV YIR*ASHSL*NCAGLSSFP*MT SESLTTFVAF*APLINPSKRASLS RFSLCISLSCGSNWGSVPGNW VLPYSWGF
21518	51886	A	21646	359	543	VVTPDSGSSH*KANSFCLSGAN LMLKKASFRSKQVNQLSSAGS NPSNMYGLGTVGCKVTVA
21519	51887	A	21647	2	582	
21520	51888	A	21648	3	574	
21521	51889	A	21649	1	195	LCVFFVLVSFFLSPLDSQLAVV C*FDGTGIGMYLTSAVSPPRN GVVASVMYAVVTPMLNLFICS
21522	51890	A	21650	2	457	
21523	51891	A	21651	21	545	PPCTSLRPLHAFSGKMTHLNRG TSLLLDSQLHNLIALQMTCKFD VEIPNFFWEPSTPSHRNINMYF PAAVFGFLPISGTLFSYCKIVSSI LRVSSSGGKYK/AFTTCGSHLS VVC*FYGTGVGGYLGSDVSSSP RKRAVASVMYTVVTPMLNPF YSLRNRDMKSVLRRPHSSAV

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21524	51892	A	21652	899	1039	LWTSSLTAESSPMRAA*LRETSI VSAASRAFSAAALSSSALRAFSA C
21525	51893	A	21653	804	1390	QGTIILKVLRLRWTWIPSRASL RTGYCFCLTGWTPGLTSISTGA WLTANPGGLSSAHTLGHLAR AGLISWPGSVKKSLHSSSRGSIR VIMTPVPGNFSSKEPCSVKEIVA LSLLSKSLPNKGKGQSGMYKN* *ITLCPPIVQVWGKQKACFAET PMAPMMSIVFLDKGATEAVTT ECSALVSTRKSMSLPPTV
21526	51894	A	21654	84	730	HLSDSKSQVRYQPSADLSFLLG HYNPQSSRRVLSVLDSQLHNL ALQVTCFKDVEIPNFFCDPSQLP HLACCDTFTNKIIMYFPAAIFGF LPISGTLFSYSRIVSSILRVSSSG GKYKAFSTCGSHLSVVC*VYGT GVGGYLSSDDVSSSPRKAAS VMYTVITSMNLNPFYSLNRNDIK GVL RQPHGSTVQFQYLLICSIPF VWVWKKGSKVK
21527	51895	A	21655	1049	1979	
21528	51896	A	21656	2244	2901	LRCLSLPFLEAWKRDMLLSVM A\YDRFVAICHPLYHSAIMNLCS VGFLVLLSFFFLSLSDSQLHN LIALQMTCFKDVEIPNFFWEPS QLSHLACCDTFTINIIMYFPTAIF GFLPISGTLFSYYKIVSSILRVSS SGGKYKAFSTCGSHLSVVC*FY GRGVGGYLSSDVSSSPRKGAV AAVMYTVVITSMNLNPFYRLGN RDIKSVLRRPTEHCLISKK
21529	51897	A	21657	1	2850	

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21530	51898	A	21658	1	1703	KKMALTSFLPAPTQLSQDQLAE AEEKARSQRSRQPSLVSSRREPP PYGYRKA WIPRLLED F*DRGA FPEIHVAQYPLDMGRKKKMSN ALAIQVDSEGKIKYDAIARQQQ SKDKVIYSKYTDLVPKEVMNA\ DDPDWQRP\DEEAIIIEITEKA\ VALAEKSVSQKVA\AAMPVRAA *QIGPLLQYIPIHTISGKGVAIQ T SWS*TRRVIRVMVEMQ\KDPM AE PPRFKINKKIPRGPIPSPPAPVM HSPSRKMTVKEQQEWKIPPCIS *LGKMAKGYTIPLADKRLAAD GEEGLQDSYTLNGKFSAKLAE ALYIADRKAREAVEMRAQVER KMAQKEKEKEHEEKLREMAQK ARERRAGIKTHVEKVKYFSTVH TEDGEARERDEIRHDDRKERQH DRNLSRAAPDKRSKLQRNENR DISEVIALGVPNPRTSNEVQYD QRLFNQSKGMDSGFAGGEDEI YNVYDQVALIGGKYMAQSIYRP SKNLDKDMYGDD\LEARIKTN RFVPDKGVFLVQTRRQREGP VQFEEDPF\GLDKF\LEESPTAM GGS\KRPSG*PAAPREHGA WKA RKRKE
21531	51899	A	21659	2	1588	CLRRALPGSIESAPTAPPPPSGE GSQAYISRLPATLIVLILERRQL LGVWRRARCCSLINLAHRRHC GMPTRSPCAILARRYEGRRSPS TVAQPPPPPPPIELAPSTSETPIQ ATRG AHPAQPS/VPPA/PARPPE RPPVPEQGPSGTHPDPTP/PGPT NAPQRPSAPNPTTN*PTRMHM QLPDAA*TPPAYGSDYL*AR* DATASHQASCTN/SPDAA*TPYP AYAKIERA*ENPVPSAIKIIGRSS SSGRQASPWGMA/SPHWRSWR MGPNGSGKRPRRAAERISCCRN AQGRTHSQKAYIQQPQCCVN VHLQPPD/PTPAQ/PSQTLSPDS /PAPPLPAYPS/TQHPTAPPPTSSP MSS/RIVKPHPQHCGARPGQ GK ERDETERKDAKERNRRTATPTT RHTDRLPRTAHGPPPP\PPPPPP PPPPPPRDSRRRPRRREKPEQQ KEGGQTGRTQRKETARRGEER ETGRKKTRGAPPPRPAAARRPH ETAETKRPPARQHRPPRRPS DGTERTRHQLGFIMLGLLSWN



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21532	51900	A	21660	2	192	RVDICSTNYCWWLYPMTSGPSF SYV*GP*EEDVRE*MCGRDGL* YLSIGVVCGFICQHHNRAQ
21533	51901	A	21661	783	2119	GSEMPVTVMMLTLGEPGHFMSS LGICWCGVEDEAAPSKQSIYIQ RETQVRTPMAGVSPKKAHPCE MCGPILGDILHVADHQGTHHK QKLHRCEAWVNILYDSGNFHR RQNEHIGEKPYRGSVEEALFAN RCKLHVSG\SHLSSVRV/EKDFL LRSGLLQQEATHTGKSNSKTEC VSLFHGGKSHYSCGGCMKHFS TKDILSQHERLLPTEEHFVWCE CGKSSSKYDSFSNHQGVHTREK PYTCGICGKLFSSKSHLLVHQRI HTGEKPYECEVCQKFFRHKYH LIAHQRVHTGERPYECSDCGKS FTHSSTFRVHKRVHTGQKPYEC SECGKSFAESSLTKHRRVHTG EKPYGCECEKKFRQISSLRHH QRVH/T/NERAYECSESLIKYW RIHT*VRSCDCSKCGK/CFTQRS ALLGYWRVHTR\KSPYK*NKFG QFCSHTSVFLQDYS
21534	51902	A	21662	84	437	KMTSTQPVKFSLFASHSVPCGQ SFPGRRAFAPAMPRRRIPSSDHL PEPGQSHQHVNRQRWACRELI AAFLPSSYRL*LVETGGEIGQRN RASCHSPFPAGSSPGIFQTEIGKP CLLP
21535	51903	A	21663	69	446	
21536	51904	A	21664	880	1365	
21537	51905	A	21665	1705	2196	RQNQREGDDDTEDQPPRPGTQ MTELFFLIQMLCFMANALRQL VHPL/MGNVHEYFADLKMPAC AVSAFLCAMHRSITSMFE*DNG PGPADADAR\LDMRIQVFMFCA NTLPARVLQRNKNPGQDHPET AERRAESQRIIEKGLKCIQGKGI VNSISMKEGVDAFIH
21538	51906	A	21666	1	1147	
21539	51907	A	21667	254	557	AADEIGGIAVETVTEDAHLLCG CTVVAIPPRICVSAGGGAGDRK SSVRFHQNLAQVHITRGV/VWT MTNSHIITCCATAFGTTTSPSPT ESTGVPCGRRNQH

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21540	51908	A	21668	557	1031	SSRNASGAVRKISRGMPDKKW NMALT*HSR*ANFSPLPVSGLS RRKICTIPRAQRIR*PICADRLSV ASPAACGIA YTRYSHDGATA EKY AHLQSRFRQQCRQFHPAA YDESPHRNRRRKWRPTYRCHP APDHRTACLRSAFYGNAPGCV QTERSW
21541	51909	A	21669	572	825	QARISTSFFRESLPSRHPVPRYR PLEAFWTPCTRGYYRFFFS PAR ENAEYRTL\KHWAKFLLVRAF PGASTLCKSPGRTISV
21542	51910	A	21670	303	899	EDNYSGSSLYCFDDVASVQMP GSNGNCR* CAGKTSG/TWRNS LVRQWLLTAQKKTLH AVSNL PKTWAQILFSKQRVLR SPLNRH LIW*CAAVKL*LLVLYPAIRQSI SSKSI AKSLSRRYFR LPIGDSM* NRW*RIFTIIGMYIGTAL*SDGAI VVCRLCENLPGSFHQHQRCD AASLAGGSEPIAFSRAGRTPGP
21543	51911	A	21671	1	1320	
21544	51912	A	21672	99	761	IDNAPPDQTTVHAF AANSENHS PPQLPYETPDDADPTHQAFSRW RHRPQAYSADALLRERLPPTHR HRGQSPDSLTS LPYWRGRKY RAAPALT*TPPDTLFDSPP*PAV PPPVAKELPVTAQRQVHNAMS ANSFVIFHPVKIRNNIVLQPAIAI QRRNGHGVTRCAALHSRHGS LSVARHRVHLPVCRQADDKPA PAPLRPARYCLCPNQSAAVRYL R
21545	51913	A	21673	62	680	SSRNASGAVRKISRGMPDKKW NMALT*HSR*ANFSPLPVSGLS RRKICTIPRAQRIR*PICADRLSV ASPAACGIA YTRYSHDGATA EKY AHLQSRFRQQCRQFHPAA YDESPHRNRRRKWRPTYRCHP APDHRTACLRSAFYGNAPGCV QTGPVRRSGAASASSPAVFLSG TSPWSFARTIALVRGRSRKSTRT RLWHISAHC
21546	51914	A	21674	411	481	

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21547	51915	A	21675	402	915	RLASKLFTTVTPRGGVGELQAT TRNAAVAGIKRKRSNRGRPAEE PELTADRGQGENEITEAATAAK ARRTMRPKTGNQNPDKHRTRG LQICHTFNANGNRARCSAANA MAATISGLSSGLSGTGWQETIR PPLAAIF*SSCASNDIHLPKSFLA LPNGTAPLNGLPSIAS
21548	51916	A	21676	1416	1832	GSAPRQRHLAGRRPVTTTRPKHV SHHGPPQENSAHRLSHVDNESTC IVCGTLRLQHSARYFPPSLPETL FLAPVNHSV/EYNWQAAVPK*I Y*HQTFPGRDCQHLLFHFVRKF GVRESI/AQVVAVRAATSAWRY SRSSAITL
21549	51917	A	21677	97	300	
21550	51918	A	21678	756	1179	RRRLPSPYCRAAAGSSPSYECF AHQRSVASSRGHTGTRQFYRE HWFLRCIRRLSGTRLLAYHRCF QPHLACSGKRAVSASSTRSADV AAWYRV/CAKPFSSSS*VQEDL SYLRFSAS*P*TVIL*PACRKPCR KRRGQRRWR
21551	51919	A	21679	3	1279	
21552	51920	A	21680	1	2448	
21553	51921	A	21681	317	1985	PNTPLTSKLPLLTHPLTLLTPSA SGWQKTTKLSCVF/PETEKYAH ERLAHHVAQGANQYAPMTGV QALREAIAQKTERLYGYQPD DSDITVTAGATEALYAAITALV RNGDEVICFDPSYDSYAPAIALS GGIVKRMALQPPHFRVDWQEF AALLSERTRLVILNTPHNPSATV WQQADFAALWQAIAGHEIFVIS DEVYEHINFSQQGHASVLAHPQ LRERAVAVSSFGKTYHMTGW KVGYCVAPAPISAEIRKVHGYL TFSVNTPAQLALADMLRAEPEH YLALPDFYRQKRDILVNALNES RLEILPCEGTYFLLVDYSALSTL DDVEFC*SLTQEHGVAAIPLSVF CADPFPKLRILRIQTAAINLLVN HERRANAVINVDHAEIPFLRIIL PFLRQRQHHAVIDHHPNAELL FQQIFHLHRRCPRRFRHGLRHA GHRINLTVDFQRQVDGMVRPQ FTVAMPAIFRFRTAAPSASVHQ SGVRLPYQFMALIASDNFCCW VHGGYITLAVNGNDAIGSVFNN QIVKCPRFTQCLGEVINTLTDL PHTGQLW

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21554	51922	B	21682	160	312	
21555	51923	A	21683	80	452	
21556	51924	A	21684	158	1980	REDTAHLPAVGFLPQNPFRAIR ASGEMLLPLLLLLPMCWAWEV KRPRCVSLTNHHFYRIESKPFT\ CLDGSATIPFDQGGRLTYCDCK IDGS*RSQATAA\CP\NGQAFHC HQTLGL*SPL**SPSKPGSNDGV CDCCDGTDEYN\SGVVICENTC KEEGPVRRRESLQQMA\EVTRE G\FRLEEDPLFEGLGKKAREEK QKKL\IELQAGK\KSLEDQ\VEM LRTVKEEAKEPEREAKEQHOK LWE\QLAGFQGPNREQDARA ADAFKELDDDMDGTVSVTELQ THPELDTDGDGALSEAEAQALL SGDTQTDATSFYDRVWAAIRD KYRSEALPTDLPAPSAPDLTEP KEEQPPVPSSPTEEEEEEEEEEE EEEEEEEEEDSEVQGEQPKEA PPPL\SPPQPASPA\EEDKMPPYD EQTQA\FIDAAQEARNKFEEAE RSLKDMEESIRN\LEQEISDFGP NGDV\FAYLYSQ/CARDLTTNE YV/YTRLCPFQVLFFAGNPNSG VFPTSLGHLGASW/VLGPDHGQ VSVAMKF*ARHGACWQGPNNPL QHP*RFWFGKET\MVTKHPQ*P SRCEYLHGS**TPAA\CPEPPAL KQPQPKD\DHDEVLSWMGARE
21557	51925	A	21685	59	359	LLRIGNDWCIKPGITPTTHIILP IGEIRQPNATLDLSQSVDNEY CLLLAKELGLNVPDAEIIKAGN/ GARVSGRTF*QALEC*ANGFTS LATGGYVSDI
21558	51926	A	21686	1	213	MSIAVTTTDPNTGVSTTSSSSL TGSNAADLQSSFLTLLVAQLKN QDPTNPMENNELTSQLAQISTV SGIEKLNTTLGSISGQIDNSQSL QASNLIGHGVMIPGTTVLATGT SEEGAVTTTTFPFVELQQAADK VTATITDKNGAVVRTIDIGELT AGVHSFTWDGTLTDGSTAPNG SYNVAISASNGGTQLVAQPLQF ALVQGVIRGNSDITTFGVNMKL AHLGRQALMGVMAVALVAGM SVKSFADEGLLNKVKERGTLV GLEGTYPFVSFQDDGKLTGFE VEFAQQ*FAHGQRRRFTKQFS DFAGGAAEKPGPDQSNGKQRA DVAIGNQHGGQRD

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21559	51927	A	21687	1	2339	MSGGQTEKQAQLIRDFQPDMI MVTPSYCLNIEELERQLGGDA SGCSLRVGVFGAEPWTQAMRK EIERRLGITALDIYGLSEVMGPG VAMECLETTDGP TIWEDHFYPE IVNPHDGTPLADGEHGELLFTT LTKEALPVIRYRTRDLTRLLPGT ARTMRRMDRISGRSDDMLVLR RRHLCRPSACQLCRPPSLPATD RVLELFAQSGAQLVILGDVL NHGPRNALPEGYAPAKVAERL NEVAHKVIAVRGNCDEVDQM LLHFPITAPWQQVLEKQRLFL THGHLFGPENLPALNQNDVLV YGHTLHPVAEQRGEIFHFNPGS VSIPKGGNPASYGMLDNDVLS VIALNDQSHIAQVAINPAPEKEG FLIMEQRRLASTEWDIVNEEN EVIAQASREQMRAQCLRHRT YIVVHDGMGKILVQRRRTETKDF LPGICATSKVRKLLCKSAALLP VSELLLVLLTPVFGSAVIGKL GAFAIHIDGITVKRRLVRNTVL QFCGRSRQPLEYVSAGDTGPVL RALKRMAMRHYMRSQTVKG VTDTRAIDEVALSVAQVEEMY RYLAIANYEDRFVIPTSHREMA GDFAERNCGFTFGDGCHGS DSKFNLFNSSRIDAINITEILKVI GLLMEYPDELLWECKEDALALI RRDAPMLTDFTHNLLNAPLLD KQAEWCEVFDRGRTTSLLLFEH
21560	51928	A	21688	391	631	
21561	51929	A	21689	2779	3348	LMQLHNGLPVAGLRQFCQQLV IQRLYFFTTATAHQCTRHMCHR HRSLLTAHRQMALCFQYVDDL HHAFADVLIINACYPLLMGEQ GVFIYNGTQQLLHWVIIDSRQD HGFGGL*KSRIVCERRRL*SQH GQFVFRHHVPDHRIDIAFNAL *TLVIREISSVPASVGVGIDFPGG AATWAGPVVIKPGQS

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21562	51930	A	21690	1	1239	MPNVDVVGEMVNTMSASRSY QANVEVLNTEKAMSIAVTTTDP TNTGVSTTSSSLTGEQRRRFTK QFSDFAGGAAEKPRPDQSNKG QRADVAIGTNQHDAARILRKG TMTLLNPYFGEFGGMYVPQIL MPALRQLEEFVSAQKDPEFQ AQFNDLLKNYAGRPTALTKCQ NITAGTNTTLYLKREDLLHGGA HKTNQVLGQALLAKRMGKTEII AETGAGQHGVASALASALLGL KCRJYMGAKDVERQSPNVFRM RLMGAEVIPVHSGSATLKDAC NEALRDWSGSYETAHYMLGTA AGPHPYPTIVREFQRMIGEETK AQILEREGRLPDACVGGGS NAIGMFADFINETN/VSVG PQH AYLNSSVRAD*VSITDDEDLQA FKTLTASYKTTTAAAKTSLHVP
21563	51931	A	21691	32	1778	WDARVFSHSGWVLYLIRQYCSI SAVSSCGSTTGSACSWATA TSDSVTHLRLFSYRGSDHFRMR RFNHFRRLRFGNLNGGFYDTGHF FNNWRANNRFDGGDRDLSSH RLHMYFFLFALLFNLYILRTYN WIADPDFARGQFRRRARYGQR HWRLGWITLVTIATTTLTYYAQ VTRRAARTTRHATVTVISIVL FLLFWCSLRYDWHYCILIRSTP SVLSQYPVGNELRRRLVHLHL LCTYSDDDSRDPRYRQESRTRN GVVPVIVNIDVHRFGQTGDQH GAMIIPVIFLLNVAMHERASGHI PNGNRTYYLSRSQPPVFALMVE LFEEDGVAVARYLDHLKMEYA FWMGGAESLIPNQAYRHVVRM PDGSLHRYWCDCHTSCD*SW LEDVETAKHSGRPPNEVYRDLR AGAASGWDYSSRWLRDTGRLA SIRTTQFIPIDLNAFLFKLESAIA NISALKGEKETEALFRQKASAR PMREYETGEQWDKPNGWAPL QWMAIQGFKMYGDDLLGDEIA RSWLKTVNQFYLEQHKLEKY HIADGVPREGGGGEYPL\QDGF GWTNGVVRRLIGLYGEP

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21564	51932	A	21692	1	2514	MKTLIARHKAGEHIGICSVCSA HPLVIEAALAFDRNSTRKVLIEA TSNQVNQFGGYTGMPADFRE FVFTIADKVGFAERERILGGDHL GPNCWQQENADAAMEKSVEL AVVIDLWSRAVIGWSMSPRMT AQLACDALQMALWRRKRPRN VIVHTDRGGQYCSADYQAQLK RHNLRGSMsAKGCCYDNACVE SFFHSLKVECIHGEHFISREIMR ATVFNIECDYNRWRHHSWINS LLSQKRNTQGRIEDGRQH
21565	51933	A	21693	1	1527	
21566	51934	A	21694	792	1602	HCLSARRYELVCQPK*AFVR*L LR*IAVLRVHLNIQHLLRRSHSLR HGRRHTRKGERGTINIVNGTPI HERSRNIDNRRSPSPYIRKRGAGH TELRS DHPLINQHW HFFAGM VAVTNGRIVAVIRHHDQAIWL HRLNKP GKVTVNDLQTFGITCD VFCMTSEVGFLNVGANKRRRM GVKFVEGDIHNPLAIHQILPAH AIRIVDDICHLTHQHGWHACFI QFLWHLHFFIDAIAHMHDLTV VISARTTRIDTNKAPFFAFCGIE
21567	51935	A	21695	1	1530	LSQQT VNTLQAGHQTIHFFMG VIHGQRRP THR RDVVIGHQWH CAVMSGTHSNAVIEKTANIIGV VFTEIKSNNAKPVLWAIESNAA ATDGEIVFDGEILKSACEINDSD KKIEVALGHYNAEQFRNIGERS PKIPFTIPLVNC PMTGEIANILGS KPGTIFTMLRDTGGIKPHERKR AVAHLTLSEEEIRAGLSAKMS IRAIGYWR*IASPSTFSREIVQRK GGHRVYYKAVDANIRANRMAK RKPCLLDQNVPLRKL VLEKLE MKWSPEQISGWLRR TKPRQKT LRISPETIYKTLYFRSREALHHL NIQHLLRRSHSLRHGRRHTRKGE RGTINIVNGTPIHERSRNIDNRR SLGHWEGDLVSGTKNSHIATLV DRKSRYTIIVRLRGKDSVSVNQ ALTDKFLSLPSELRLSLTWDRG MELARHLEFTVSTGVKVYFCD PQSPWQRGNTNENTNGLIRQYFP KKTCLAQYTQHELDLVAAQLN NRPRKTLKFKTPKEIHERGVALT
21568	51936	A	21696	2	140	IITNSISRPGDPPMSDPHS*SPAS SSAKTETKSLFNAFLV

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21569	51937	A	21697	1817	4083	KGLLTSFHYIKTPEVPNLCVEG GTRLQIWPACSSSTGSGGTCWK APPQPPRPPTSSSPS/PAPPSEAF VLSAGAMQLEAGAYSLVLIKES KNNVGVDVIKRFCTAGGNV NQYNHYGKHCVLSCSGPASGA QPLYRMAQPPSPNMAAGIPPA ARISSITSPLLKPSWLHLLAHP VLQAHLTEEGLGRSHHVQRGQ CLVSKSVFTNACWEMQNVKRF TDFIPLHKNTRGPEPLCRRRNQ APNMACMQQHWRNRN
21570	51938	A	21698	247	281	KPGKQHSMLK*SALLPSAHGPT S/CKEARCHPVQILPPELLF*MP KKICPPLCYLWTVKAWETTFH AEV
21571	51939	A	21699	531	716	PRRLRAAPPDLGGFRLLPR/LPE ASGCSP*SQRLFQKAPSPAPCS WRRSRFCVKTCVLPMMGGQ
21572	51940	A	21700	202	606	ITCLHAHVTCQILPYLMLPAP LLRPLPTPLTVAGVGQSLPEIQL SVTLPLQGRNQGSLESRLVS WAEP*DPAVSALPLQGRNQ SLESRLVSWAEP*DPAVSAL PLQGRNQGSLESRLVSWAEP
21573	51941	A	21701	444	1167	FRLHGHLEGRPFYFLSPLAVQS SQSCLRRFTTRYHLPYVLNRK NSWHVAHIFRRHAKPEEQAPIY SHIHFTSDLDEVLPDVKLVV VCTHADSHFEYAKRALEAGKN VLVEKPFTPTLAQAKELFALAK SKGLTVTPYQNRFRDSCFLTAK KAIESGKLGEIVEVESHFYDYYRP VAETKPGLPQDGAIFYGLGALFT NQQGFFKSSLLSIFADSSSSVAG RSPHNLVKKRGGIVAISAFAG
21574	51942	A	21702	1	668	



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21575	51943	A	21703	1	1308	MRVYMDGRLIVSTRQRKVLAA GPMLYAATRPAFTMSGDNLV RSHASIYMTSCHTLLGEQAGYA VFGALLPAITLLHLNSACCIVYV SCLLADAGHRDSLQQAGDKWT TTDSYSSSCTSETLGSACVRYA HSSRNHVRFALSDDLDEVLNDPD VKLVVVCTHADSHFEYAKRAL EAGKNVLVEKPFTPTLAQAKEL FALAKSKGLTVTPYQNRFRDSC FLTAKKAIESGKLGEIVEVESHF DYRYPVAETKPLPQDGAFIG LGVHTMDQIISLFGRPDHVR* HPGALRNKSPIWTNPFEAQLAFY GDLKAIVKTSHLVKIDYPKFIV HGKKGSFIKYGIDQQETSLKAN IMPGEFGFAADDSVGVLEYVN DEGVTVREEMKPEMGDYGRV YDALYQTITHGAPNYVKESEVL TNLEILERGFEQASPSTVTLAK
21576	51944	A	21704	199	706	SHDVCRINADRQRDRNNRRQR RSLRVYKLGNNQQNNGIGPRIL FHHFTQYALNFRHMRTEHGFC HPCDTVHRHDGDHTGTEDFVF/ WR*TRDWFWSG*YQRPQQH KHLNNQYHRQRFAAEGWTQV RISTKKGDYSDCPEENPHCQPV AGRYHYSLVGRVSNATLARLIR
21577	51945	A	21705	354	569	SRAVCWQVGTRLWAIFGVS*E LQRHVLVVFAGFWIVKNSRNL FLVCRAEHKRSVVKGLLRQQG AGLLVPLS
21578	51946	A	21706	373	462	
21579	51947	A	21707	1	1293	

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21580	51948	A	21708	1	1371	MCPIEETASSFGGKPLSMVLVIQ MFMLLTGALIILTKTNPASISK NEVFRSGMIAIVAVYGIAWMA ETMFAPACYGYIILPTYPDLA AIQFDRSGTTHIGRFVINHSFILP GLIGVSVSCVFGWIFAAIKRDA AAGRAKENVIFHHFPFQSVKAD IATNPFKRPGGAFIRITQTFRTV QTFRLSAYRLDFAGDRLRISTPR AKMRTAFKKDHLRQRRRCIRQ RAPPARHNLVGAVALPATVAG VNFTFSNVPLDSSVLSLLTDFS TAVGSIVMLAVIMGLMLAFDM GGPVNKVAYAFMLICVAQGVY TVVAIAAVGICIPPLGMGLATLI GRKNFSAEERETGKAALVMGC VGVTEGAIPFAAADPLRVIPSIM VGSVCGAVTAALVGAQCYAG WGGLIVLPVVEGKLGYYIAAVA VGAVVTLLFV*TC*KVWRVKM GLRLMKKKTTWIWILKLI
21581	51949	A	21709	961	1116	
21582	51950	A	21710	228	388	RRGRNRYPALQ*TMFLPADGP ARCLSRQAAILKESVLPK*GRP DVVFSPAYPY
21583	51951	A	21711	1168	1851	LHRTGQRPAAQRTETHHPFFNH FARLQVDTVVINHHQHTVAFQ NRTFRSEI*RNNVDIFQPDVLPD ILLGPVREREDADAFVNLVPV VVVPQLRALIFRIPAMEAVTER VNSLFSAGFLFVTARTTEGGIKT VFVQRLFQAFSFHNIGMFRAAV HEWINPHRHAFRVFMHQQFAA VGFSSTIAELIHLAEFPAGIDMQ QRERQRTWIKRLARQMQRHDAG IFTDRVEH
21584	51952	A	21712	1	2653	
21585	51953	B	21713	632	709	

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21586	51954	A	21714	1	1214	MHDQQVIDAYHPDLRRTRAAS QSIIPVDTKLAAGITRFFPQFND RFEAIAVRVPTINVTALDSVTV KKPVKTDVGGAGTVKLNRCQI ARISRQDVITPPGCVFEKALTLL IASGRNDTLARQNNHTKESLVE KPFRKILVIKMRYHGDMLLTTP VISTLKQNYPDAKIDMLLYQDT IPILSENPEINALYGISNKGAGTF DKIKNVLSLIKTLRANNYDLVI NLTDQWMVALLVRCLPARMKI SQLYGHRQHGIWKKSFTHLAPI HGTHIVERNLSVLEPLGITDFYT DTTMSYAEDCWKKMRREDA LGVKDHYVVIQPTARQIFKCRD NDIISKVICMIRGSPTEGRWSVF FFYPADFTFVCPTELGD/GC*PL RRTAETGRRRIRSIYRSLHPQS
21587	51955	A	21715	25	1086	
21588	51956	A	21716	1	1113	
21589	51957	A	21717	80	430	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGLIFVSKNDLWYCELQS HYTVVLLL FMRKRSRFQSNVQ RKLMTNF
21590	51958	A	21718	1	2076	
21591	51959	A	21719	2742	3109	VWTEGTGNASRARR/WKGNQL LPVSLVKRKTTLAPNTQTASPR ALADSLMQLARQVSRLEKRAV SATQLMAKAVKGQSSLLPVSL VKKKNHPGALIRKPPLPARWPI LLIQLARQVSRLETGQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21592	51960	A	21720	174	1608	TAAKRKIPSASIRSIND*KY*VC KRT*CVGQLAA\ENADGTVAEY NGYHVVFALAGSPKDADDTSI YMFYQKVGDNISDSWKNAGR VLMNPLMILVKIILSLTLACH ALLDCKTLTLTELGRNLPTKAR TKHNIKRIDRLGNGRHLHKERL AVYRWHASFICSGNTMPIVLVD WSDIREQKRLMVLRSVALHG RSVTLYEKAFPLSEQCSKKAHD QFLADLASILPSNTTPLIVSDAG FKVPWYKSVEKLGWYWSRV RGKVQYADLGAENWKPISNLH DMSSSHSKTLGYKRLTKSNPIS CQILLYKSRSKGRKNQRSTRTH CHHPSPKIYSASAKEPWVLTN LPVEIRTPKQLVNIYSKRMQIEE TFRDLKSPAYGLGLRHSRTSSS ERFDIMLLIALMLQLTCWLAGV HAQKQGWDKHFQANTVRNRN VLSTVRLGMEVLRHSGYTITRE DLLVAATLLAQNLFTHGVALG
21593	51961	A	21721	1	3285	
21594	51962	A	21722	1095	1188	
21595	51963	A	21723	568	1263	
21596	51964	A	21724	2	1688	
21597	51965	A	21725	1456	2046	SKGKVAIVSSHQEVRRSPRRSP LGSEERPGPHTSRQAAGQPHPG TCSSVHCQGSWGLQTQNSEVIH DGDVEAISVGEDAAPGPRVHG ADLGQEEEEAFR*VVMGGLPDR DSALAPVPEPMHRGWAVRAAE GAVQNDPVGGSERSWGAGSHS QPFSHRPAPHTRGLAQQAQTEAA GEGAVPEVHRGAVLAGVRAPG WAQP
21598	51966	A	21726	335	595	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARIHGSFADAE*I LWTGGDNESVS/MR*FFRPLER DLYNRIWHEIGLLLVSL
21599	51967	A	21727	80	428	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGLIFVSKNGLWYCELQS HYTVVLLLFMKRKRSRFQSNVQ RKLMTNF
21600	51968	A	21728	622	1281	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21601	51969	A	21729	1066	1827	VPQAKGNNVVITSYMTNRGFF EDKKATFAPSFLMNIKGNKTSV VKNSILEQQQLTWLQVAKRAG LGGGQSGRTVLRERVRIEIAST HIALQHAIVTGDAVGMDDIPQE ARQYRHNQAYAYSIIQGDGAED DDERJAFASHTIQECRSQGGPGG YPFKIYSSRKDRIPISQSLLESHF TVHEETAPDLETTG*PGCKDHG NLCC/LSSVKLRYSMYRIKAGL WMTHPG*RTYWV
21602	51970	A	21730	1	1326	
21603	51971	A	21731	1	1971	
21604	51972	A	21732	1	1626	
21605	51973	A	21733	1	1810	
21606	51974	A	21734	305	442	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARIHGSFADAE
21607	51975	B	21735	1	1938	
21608	51976	A	21736	531	669	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE
21609	51977	A	21737	80	428	RWLATPYLTVKLSLLPNLAVTC QPKREQNITSNESTDC*VIVTST KSDSLYTVGMLALSVRIRCPL YLLTGLISVSKNGLWYCELQSH YTVVLLLFMRKRSRFQSNVQR KLMTNF
21610	51978	A	21738	10	426	
21611	51979	A	21739	314	451	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE
21612	51980	A	21740	1	1139	MWGIGSRTPIYNKILVYSSPEVS CEKPKYVKSQTSTHTGFESHKR YIFYLRLVGKNLHVSAMGLGK SQERRKKALKSQPQQPADSFPS LPTVEGLTTSGEVAAGFWLSGE ALSSC*LLSASVHLLLAACLGMG KCSCSGFWLYF
21613	51981	A	21741	306	444	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21614	51982	A	21742	189	1089	HHTAHCQ*CWL*S/DHGINPLRS WVG TG*V/GVRGKVQYADLGA ENWKPI SNLHDMSSSHSKTLGY KRLTKSNPISCQILLYKSR SKGR KNQRSTRTHCHHPSPKIYSASA KEPWV LATNLPVEIRTPKQLVN IYSKRMQIEETFRDLKSPAYGL GLRHSRTSSSERFDIMLLIALML QLTCWLAGVHAQKQGWDKHF QANTVRNRNGSLLTNWPSVPP TIKEEENSEEELAAATTSKEQEP IGTDLDAVRTPEPLEEFPKREDQ EGSPPETSLPYKWVVEAANLLI PAVGSSLSEALDIES
21615	51983	A	21743	1	1135	
21616	51984	A	21744	80	430	RWLATPYLTVKLSLLPNLAVTC QPKREQNITSNESTDC*VIVTST KSDSLYTVGMLALS VRAIRCPL YLLTGLISVSKNGLWYCELOSH YTVVLLL FMRKRSRFQSNVQR KLMTNF
21617	51985	A	21745	80	430	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALS VRAIRCPL LYLLTGLIFVSKNDLWYCELOQS HYTVVLLL FMRKRSRFQSNVQ RKLMTNF
21618	51986	A	21746	773	1015	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADASF STDLYHGTLKPASLTMSGVLL GRMLARSARNWS
21619	51987	A	21747	391	527	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE
21620	51988	A	21748	671	1030	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE*I LGDGW*Q*VRVER*FFRPLERD LYNRILACPLINT*PTPVRLKP *TVWSMGPVVGTPARPRTSGA CWWCW
21621	51989	A	21749	221	478	AEQDCTILPVL RHFTFFKSRKVS SICIRFE*ILTSCLGVRISTGKLV ARTHGSFADDQTLFFMTLAVS GELWTPSPWRPN SIRTS
21622	51990	A	21750	590	940	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALS VRAIRCPL LYLLTGLIFVSKNDLWYCELOQS HYTVVLLL FMRKRSRFQSNVQ RKLMTNF
21623	51991	A	21751	473	613	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARIHGSFADADT

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21624	51992	A	21752	342	1459	SFLWRFRLRGGSERFCLAGIPSA SGV*NIPSASIRSIND*KY*VCKR T*CVGQLAA\ENADGTVAEYN GYHVVFALAGSPKDADDTSIY MFYQKVGDNISDSWKNAGR VF KDSDKFDANDPILKDQTQEWS GSATFTSDGKIRLFYTDYSGKH YGKQSLTTAQVNVSKSDDTLKI NGVEDHKTIFDGDGKTYQNVQ QFIDEGNYTSGDNHTLRDPHYV EDKGHKYLVFEANTGTENG YQ GEESLFNKAYYGGGTNFFRKES QKLQQSAKKRDAELANGALGII ELNNDYTLKKVMKPLITSNTVT DEIERANVFKMNGKWYLF TDS RGSKMTIDAKSTLLESTEGSMT PPMTATEPFLRFLKGEIAQPKPH
21625	51993	A	21753	2094	2201	
21626	51994	A	21754	81	1080	HHTAHCQ*CWL*S/DHGINPLRS WVGTG*V/GVRGKVQYADLGA ENWKPI SNLHDMSSSHSKTLGY KRLTKSNPISCQILLYKSR SKGR KNQRSTRTHCHHPSPKIYSASA KEPWVLATNLPVEIRTPKQLVN IYSKRMQIEETFRDLKSPAYGL GLRHSRTSSSERFDIMLLIALML QLTCWLAGVHAQKQEHPLWSL ALVRRRSPAQSPHVGTGSSGST GCSSQAPCMKSNNALIVILGTV TLDAVGIGLVMPVLPGLLRDIV HSDSIASHYGVLLALYALMQFL CAPVLGALSDFGRRPVLLASL LGATIDYAIMATTPVLWIYPLV
21627	51995	A	21755	80	430	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALS VRAIRCP LYLLTGLIFVSKNDLWYCELS HYTVVLLLFMRKRSRFQSNVQ RKLMTNF
21628	51996	A	21756	1	593	MGVNDLWQILEPVKQHIPLRNL GGKTI AVDSLWVCEAHPVKK MMGSVMKKHLRDFADFGTTIK QDFRLLGQTSVDRLLQLSQGQ AAYPIPDQVQSVLISMLLIAL MLHLTCGLAGVHAQKQGWDK HFQANTVRNRNVLSTVRLGME VLRHSGYTITREDSLVAATLLT QNLFTHG YVLGKL*GDSLVL SL
21629	51997	A	21757	410	547	AGLFKSRKVSSICIRFE*ILT SCL GVRISTGKLVARIHGSFADAE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21630	51998	A	21758	719	814	AGLFKSRKVSSICIRFE*ILTSCL GVRIFNR
21631	51999	A	21759	1	1596	
21632	52000	A	21760	80	430	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGLIFVSKNDLWYCELQS HYTVVLLL FMRKRSRFQSNVQ RKLMTNF
21633	52001	A	21761	1343	1480	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE
21634	52002	A	21762	2	151	
21635	52003	A	21763	258	396	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE
21636	52004	A	21764	1	3081	
21637	52005	A	21765	449	586	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE
21638	52006	A	21766	563	2042	
21639	52007	A	21767	1001	1093	
21640	52008	A	21768	1814	1870	
21641	52009	A	21769	2760	3723	HHTAHCQ*CWL*S/DHGINPLRS WVG TG*V/GVRGKVQYADLGA ENWK PISNLHDMSSSHSKTLGY KRLTKSNPISCQILLYKSRSKGR KNQRSTRTHCHHPSPKIYSASA KEPWVLATNLPVEIRTPKQLVN IYSKRMQIEETFRDLKSPAYGL GLRHSRTSSSERFDIMLLIALML QLTCWLAGVHAQKQGWDKHF QANTVRNRNVLSTVRLGMEVL RHSGYTITREDLLVAATLLAQN LFTHGLFGPSVDAPPPKRGFKR PKLPELRLQRFFGGVITPPLESY SLPSDPVHLFPPRRPPRQLTASP LRARAPYECSSCKDA
21642	52010	A	21770	860	3503	
21643	52011	A	21771	4597	6030	
21644	52012	A	21772	1513	3464	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE
21645	52013	A	21773	1	453	



SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21646	52014	A	21774	1	1526	MSSSHSKTLGYKRLTKSNPISC QILLYKSRSGRKNQRSTRTHC HHPSPKIYSASAKEPWVLATNL PVEIRTPKQLVNIYSKRMQIEET FRDLKSPAYGLGLRHSRTSSSE RFDIMLLIALMLQLTCWLAGV HAQKQGWDKHFQANTVRNRN CKMATLKEKLIAPVAEEVEANS\ PNNKITVVGVGQVGMA\CAISI LGKVSWPDELALVGCFWEDK LKGGNDGSGFQHGELIFFQTPKN CGQDKGLFWGPPNS*RFVSW*L AGSPVQPRRGRIRLKS WVPEK WLMVFQIPLFLKIV\KYSP*FAS* LVVSHPV\DIPTYVT\WETKVGL PKHRVIGSGCNLDSARFRYLMA EKLGIHPS\SCHGW\IFWGEHG DSSVAWCWNGVNVAGVSLQE LNPEMGTDNDSENWKEVHKM VVESAYEVIKLGKGTNWAIGLS VADLIESMLKNLSRIHPVSTMV KGMYGIE NEVFLSLPCILNARG LTSVINQKLKDDEVAQLKKSADTLWDIQKDLKDL
21647	52015	A	21775	2	355	
21648	52016	A	21776	2	178	
21649	52017	A	21777	1	888	
21650	52018	C	21778	127	255	
21651	52019	A	21779	1	1824	
21652	52020	A	21780	330	476	
21653	52021	A	21781	452	500	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21654	52022	A	21782	3	1584	DAWAAVSRGDEPGWGSWSR LLQHWGVSCWSDPKRFSSALQ GYIITDWCAPFNKRIWKREQPE ETFPNTETNGEFGK\KPAEDME EEQAFKRSRNT\DEMVEL\RILLA QSKNA\GAVIGKGGKNIKALRT DYNASVSPDSSVPERILCISA DIETIGEILKKI\PTLEEGQLPSP TATSQPLESDAVECLNYQHYK GSDFDCELRLLIHQSLGREGIIG GQRCLKSKELRGGT\QTTIKLF QECCPHSTDRVVLIGGKPDFV\ ECIKIILDLISESPIKGRAQPYDP NFYGWKPM\DYG\GFTMMFDD RRGRPVGFPMRGRGGFDRMPP GRGGRPMQPYRRDYDDMSPRR GPPPPPPGRGGRGGSARNLPL PPPPPPRGGDLMA\YDRGRPGD RYDGMVGFSADETWD\SAIDTW SPSEWQMA\YEPQGGSGYDYSY AGGRGSYGD\LGPIITTQVTIPK DLAGSIIGKGGQRIKQIRHESGA SIKIDEPLEGSEDRIITITGTQDQI QNAQYLLQNSV\KQYSGKFF
21655	52023	A	21783	211	1635	KNMETEQPEETFPNTETNGEFG KPAEDMEEEEQAFIRSNTDEM VELRILLQSKNA\GAVIGKGGK NIKALRTDYNASVSPDSSGPE RILSISADIETIGEILKKI\PTLEE GLQLPSPTATSQPLESDAVECL NYQHYKGSDFDCELRLLIHQSL AGGIIGVKGAKIKELRENTQTTI KLFQECCPHSTDRVVLIGGKPD RV\ECIKIILDLISESPIKGRAQP YDPNFYDETYDYGGFTMMFDD RRGRPVGFPMRGRGGFDRMPP GRGGRPMPPSRRDYDDMSPRR GPPPPPPGRGG/RGLGSARNLPL LPPPPPPRGGDLMA\YYKGRPA GDPYDGMVGFSADETWDSPID TWSP\SEWQMA\YEPQGG\SGY DYSY/AQGGRSYGD\LGPIITT QVTIPKDL/ALGSIYWKGGQR\ IKQIPS*VGELSIKIDEPL\EGSED RIITITGTQDQIQ\NAQYLLQNSV KQYADVEGF
21656	52024	A	21784	860	1201	TISEPPALILLPIAVPSFSTTCRLP EDIIVVSAFPPLLIFCVPLLILVP VAMP*LLIFCVPLIMVFVAFPA TSITPPLSIRVASALALVKTDIVP LSLIIVLFAEPYAFMSK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21657	52025	B	21785	1	3750	
21658	52026	A	21786	1	1350	
21659	52027	A	21787	189	1939	TAMAGRMPCAEVISGSATRPD GPKALFKPIGRPHQAIRPINKPP AAPPKQAVTNGFMRGRVPPKT LTPSSESLAPMTLVVIVVKEA LPPAKIFSTPVYQPTRRAPDAE PLSASKTPSVYLVNFVVSPEL RKLTVDVLPALRANTRALWQV EVSAPFSMTQATPATQPLINAE PAAAPTEQNPQVGPVMPGVQ GADAPVVAQNGPSRDVKLTFA PIAPPPGSMVLRGLNPNGSLEFG MRSDEVVTKAMVQLELTPWH GYGCQCPFLPVKYLAAIGFSV MIEALNQLAIFNRRRFLSANQT LRQRTTEAVMRLLSGQKEDAE LDAETASMLVDHGNQQIFNPQ ERRMIERVNLNLNQRTVSSIMTS RHDIEHIDLNAPEEEIRQLLERN QHTRLVVTGDGDAEDLLGVVH VIDLLQQSLRGEPLNLRVLIQRP LVFPETLPLPALEQFRNARTH AFVVDEFGSVEGIVTLDSDVTETI AGNLPNEVEEIDARHDIQKNAD RSWTGN/GLLPLGDCRL*QASP TGCINRRGSHYGYPTLYEFRKR FLTPGTVCRCRCDQRGDAMRVQ VQWVFYTYILPLANE
21660	52028	A	21788	558	1563	TNNRL*K*GNN**LTNQKKSRT RWIHSRILPEAGC/GIASVGRNN CGLWRFTPAKAISWGKIHPVFQ RQILRVLSQTLFPN/MSLGRNLG YGLKMFGVPRAELKPRFKEALP MVNLEGFEDRFVDQISGGQQQ RVALARALILKPKVLLFDEPLS NLDANLRRSMRDKIRELQKQF DITSLYVTHDQSEAFVSDTVL VMNKGHIMQIGSPQDLYRQPA SRFMASFMGDANLFPATFSDG YVDIYGYHLPRPLHFGTQGE MVGVRPEAITLSDRGEESQRCV IRHVAYMGPQYEVTVEWHGQE ILLQVNATRLQPDVGEQYYLEI HPYGMFVLADAA
21661	52029	A	21789	201	312	CSWHD RFPDWKAGTHLLARG* QLSLPVWLCPVLKLS
21662	52030	A	21790	925	2388	
21663	52031	A	21791	1	759	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21664	52032	A	21792	1	1086	MEKKITGYTTVDISQWHRKEHF EAFQSPAQCTKNQTVQLDITAF LKT VKKNKHKFPYAFIHILARL MNAHPEFRMAMKGVPGGDSV KNTSRVWSGNERDQKLLTENA LNDLIPSFLLTGQQTALGRRVS GVIEIADGSRRRKAAALTESDY RVLVGELYDEQMPPLSRLGND YRPTSAHPQKRRYASRLQNEFA GNISALADAENISRVRDVNLLL EVLGVDSVEKTRVWSGNERD QELLMEDALDDLIPSFLLTGQQ TPAFGRRVSGVIEIADGSRRRK AAALTESDYRVLVGELDDEQM AALSRLGNDYRPTSAYERGQR YASRLQNEFAGNISALADAENI SRKIIPRCINSIAKLP
21665	52033	A	21793	1	935	MLRDLLKNVDLKGFEVDVIRLL TKYSNSNGSQSPWMEEQIRDA WGSMLKKNVVRETDEVGKGQI RMRTVFEQAIDQRSSTDNEGAP VIPKHTLNTQPVEDTSLSTPAAP MVDSLIARVGVMARGNAITLP VCGRDVKFTLEVLRGDSVEKTS RVWSGNERDQELLTEDALDDLI PSFLLTGQQTAPAFGRRVSGVIEI ADGGSSRSKKRRRGCEGRR/V RQGCPCDQKHPAAFSVSGGKIHL SGRTPVEKRPLPQPRDLGARA FAACRGSRRGPWNWLPALRL HADLGCVRGGGGGWPGANPY PAPASSTC
21666	52034	A	21794	181	923	QHAIVTGDVGMHHIPQEARQ YRHNQAYAYSIIQGDGAEDDDE RIVRFHTRCLTEAFEKLQCGGV VNQLSRRGNNQHISSTYDINRA DTQVRRVANNYDIIVMSNSFN ASRSIRCGSVGSLPSSNLPINSVS IRCRAR/SG/EE* CQAPASKWAL LHK*HRPFPQDRKAGECLLHEY EDLVPIRDTLRLFPGGRYLPRA KHVAPSEPDPQEDEQKLRFCR HLYGQQPRSPVEIRLQHVAIAY PTHHAYD

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21667	52035	A	21795	178	798	IRLEPFKINVLEQITKHIEKLQCGGVVKQLSRRGNNQHISSTYDINRADTQVRRVNNYDIIVMSNSFNASRSIRCGSVGSLPSSNLPINSVSIRCRAR/SG/EE* CQAPASKWALLHK*HRPFPQDRKAGECLLHEYEDLVPIRDTLRLFPGGRYLPRAKHVAPSEPDPQDEQKLRFCRHLHYGQQPRSPVEIRLELVAIAYQTHHA
21668	52036	A	21796	499	972	
21669	52037	A	21797	3	1141	SRVKLGQSSSESQVAALKTREPMNIATLEVLVLKGLRVCFVKVNH PKGPASMYPGWVPILYIHAEDP LLPFYLGEEKEDVTYAIKPTCWPGLDIIPSCALPRIETELMGKFD EGKLPTDPLMLRLAIETVAHDYDVIVIDSAPNLGIGTINVVCAADVLIVPTPAELFDYTSALQFFDMLRPLLKNVDLKGFEVDVIRILLTKYSNSNGSQSPWMEEQIRDAWGSMLKNVKEFAGNISALADAENISRKIITRCINTAKLPKSVV/ALFSHPGELSA GDALQKAFTDKEELLKQQASNLHEQKKAGVIF EAEVITLLTSVLKTSSASRTSLSSRHQFAPGATVLYKGDKMVLNLD RSRVPTECIEKIEAILKELE
21670	52038	A	21798	1	617	LEPASLSIPNLLLHPRGLRAITIAVFGKQNTYIRLEPFKINVLEQITKHIEKLQCGGVVKQLSRRGNNQHISSTYDINRADTQVRRVNNYDIIVMSNSFNASRSIRCGSVGSLPSSNLPINSVSIRCRAR/SG/EE* CQAPASKWALLHK*HRPFPQDRKAGECLLHEYEDLVPIRDTLRLFPGGRYLPRAKHVAPSEPILSC
21671	52039	A	21799	181	953	QHAIVTGDVAGMDDIPQEARQYRHNQAYAYSIIQGDGAEDDDE RIVRFHTRRLTFKINVLEQITKHIEKLQCGGVVKQLSRRGNNQHISSTYDINRADTQVRRVNNYDIIVMSNSFNASRSIRCGSVGSLPSSNLPINSVSIRCRAR/SG/EE* CQAPASKWALLHK*HRPFPQDRKAGECLLHEYEDLVPIRDTLRLFPGGRYLPRAKHVAPSEPDPQDEQKLRFCRHLHYGQQPRSPVEIRLQHVAIAYQTHHAYD
21672	52040	A	21800	1	798	
21673	52041	A	21801	1	1782	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21674	52042	A	21802	666	1131	KGRGTYGNERDQELLTEDALD DLIPSFLLTGQQTPAFGRRVSGV IEIADGSRRRKAAALTESDYRV LVGELDDQMAALSRLGNDYR PTSAYERGQRYASRLQNEFAG NISALADAENISRKIITRCINTRQ LPKSVVGFFSHPGELSARSGDA
21675	52043	A	21803	1	3297	
21676	52044	A	21804	1	898	
21677	52045	A	21805	1	1977	
21678	52046	A	21806	1	1929	
21679	52047	A	21807	181	755	QHAIVTGDAVGMDDIPQEARQ YRHNQAYAYSIIQGDGAIGMTM SALLDFIHGA***YIRCGSVGRL PSSNLPINSVSIRCRAR/SG/EE*C QAPASKWALLHK*HRFPQDR KAGECLLHEYEDLVPIRDTLFL FPGGRYLPRAKHVAPSEPDPEQ DEQKLRFCRHLGYGQQPRSPVE IRLQHVAIAYQTHHAYD
21680	52048	A	21808	181	456	QHAIVTGDAVGMDDIPQEARQ YRHNQAYAYSIIQGDGAEDDDE RIVRFHTRCLA*SRRAVNNDII VMSNSFNGQSEHQVWIGGQFT FIKFAH
21681	52049	A	21809	1	780	
21682	52050	A	21810	1	1050	
21683	52051	A	21811	5	735	PPAAP/MGNLLMARVGVKARG KAHYLPLLRGESVRKTSRVGSG NERDQELLTEDALDDLIPSFLLT GQQTPAFGRRVSGVIEIADGSR RRKAAALTESDYRVLVGELDD EQMAALSRLGNDYRPTSAYER GQRYASRLQNEFAGNISALADA ENISRQIITRCINTAKLPKSVVAL FSHPGELSARSGDALQKAFTEK RTLKQQALTSEQKKRGI/YEAE EVSSSLSPQGRLSNRSASKDMY

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21684	52052	A	21812	1	887	MNMNIKKIVKQATVLTFTTALL AGGATQAFKENNQKAYKETK AVGSGNERDQELLTEEAWNDL ILSFLTGTGQTPAFGRRVSGVIEI PDGSRRRKAAALPKSDYRVLV GELDDEQMAALSRLGNDYRPT SAYERGQRYASRLQNEFAGNIS ALADAENISRKIITRCINTAKLP KSVVALFSPGELSARSGDALQ KAFTDKEELLKQQASN LHEQK KAGVIFEAEVITLLTSVLKTSS ASRTSLSSRHQFAPGATVLYKG DKMVLNLDRSRVPTEC/IEKIEA ILKELEKPAP
21685	52053	A	21813	345	921	RWRLQNLSCSSCSGSGSEGAT CFARGSAYELGQRYASRLQNA FAGKISALADAEIFSRKIITRCIN TAKLLKSVVALFSPVELSARS GDALQKAFTDKEELLKQQASN LHEQKKAGVIFEAEVITLFTSV LKTSSASRTSLSSRHQFAPGAT VLYKGDKMVLNLDRSRVPTEC IEKIEAILKELEKPAP
21686	52054	A	21814	1	1989	
21687	52055	A	21815	6	311	
21688	52056	A	21816	3	848	PGGDSVKNTSRVWSGNERDQK LLTENALNDLIPSFLTGTGQTPA LGRRVSGVIEIADGSRRRKAAA LTESDYRVLVGELYDEQMPPLS RLGNDYRPTSAHPQKRRYASRL QNEFAGNISALADAENISVRD VNLLLEV LGVDSVEKTRVWS GNERDQELLMEDALDDLIPSFL LTGTGQTPAFGRRVSGVIEIADG SRRRKAAALTESDYRVLVGEL DDEQMAALSRLGNDYRPTSA YERGQRYASRLQNEFAGNISALA DAENISRKIIPRCINS\AKLP
21689	52057	A	21817	1	969	
21690	52058	A	21818	1	1614	

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21691	52059	A	21819	1	832	MDDIPQEARQYRHNQAYAYSI QGDGAEDDDERIVRFHTRVTV DSDTLASDAARLTCTRHGLARD VKFTLEVLRGDSVEKTSRVWS GNERDQELLTEDALDDLIPFFLL TGQQTPAFGRRVSGVIEIADGS RRRKAAALTESDYRVLVGELD DEQMAALSRLGNDYRPTSAYE RGQRYASRLQNEFAGNISALAD AENISRKIITR\CINTAQLAKSG VALFSHPGELSAPSGDAL*KAF TD*EEFL*PQGSNLY\EQKKAG\ VIFGS*KKFSLFLTSVV
21692	52060	A	21820	678	1338	TLRQTKPDNSAEIADGSRRRKA AALTE\SDYRVLVGELDDKQM AALSRLGNDYRPTSAYERGQR YASRLQNEFAGNISALADAENI SRKIITRCINTAKLPKSVVALFS HPGELSARSGDALQKAFTDKEE LLKQQASNLHEQKKAGVIFEAE EVITLLTSVLKTSSASRTSLSSR HQFAPGATVLYKGDKMVLNLD RSRVPTCEIEKIEAILKELEKPAP
21693	52061	A	21821	1	1809	
21694	52062	A	21822	2	1010	
21695	52063	A	21823	284	2177	
21696	52064	A	21824	1	1296	
21697	52065	B	21825	1	1044	
21698	52066	A	21826	637	1073	IRLEPFKINVLEQITKHIEKLQCG GVVKQLSRRGNNQHISSTYDIN RADTQVRRVNNYDIIVMSNSF NASRSIRCGSVGSLPSSNLPINS VSIRCRAR/SG/EE*CQAPASKW ALLHK*HRPFPQDRKAGECLLH EYEDLYPSVIH
21699	52067	A	21827	1	2403	



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21700	52068	A	21828	1471	3186	LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGRLLRRAEDVFTPVI GVAAIKTGTTVHIVSSSSLLGG DHGPRIGGLLLVCDYGPLVSS SGISGPTRIVGLIISLPGYHLCF RSDYRTGITDPLYIGDATIRVSL RVYSLPSRSRIEHVVANCGMIP KQQQNEKYQVPQFDQSTIKNIE SAKGLDVWDSWPLQNADGTV AEYNGYHVVFALAGSPKDADD TSIYMFYQKVGDNISIDSWKNA GRVFKDSDKFDANDPILKDQTQ EWSGSATFTSDGKIRLFYTDYS GVMARGNAITLPVCGRDVKYT LEVLRGDSVEKTSRVWSGNER DQELLTEDALDDLIPSFLTGTQ QTPAFGRRVSGVIEIADGSRRR KAAALTESDYRVLVGELDDEQ MAALSRLGNDYRPTSAYERGQ RYASRLQNEFAGNISALADAEN ISRKIITRCINTAKLPKSVVALFS HPGELSARSGDALQKAFTDKEE LLMQQASNLHEQKKAGVIFEA EEVITLLTSVAKTSSASRTSLSS RHQFAPGATVLYKGDKMVLN LDMSRVQLECLDRLHACRSTL
21701	52069	A	21829	158	926	AGPVIQNYVNTQPV/EETSYSTP AAPMVDSLIRVGVMAPGNAI TLPVCGRDVKFTLEVLRGDSVK KTSRVWSGNERDQELLTEDAL DDLIPSFLTGTQTPAFGRRVSG VIEIADGSRRRKAAALTESDYR VLVGELDDEQMAALSRLGNDY RPTSAYERGQRYASRLQNEFAG NISALADAENISRKIITRCINTAK LPKSVVALFSHPGELSARSGDA LQKAFTDKEELLKQQGSSRV GDNSIDSWKTRGRVL
21702	52070	B	21830	1	3774	
21703	52071	B	21831	1	1495	
21704	52072	A	21832	556	1622	
21705	52073	A	21833	1	2616	

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21706	52074	A	21834	1412	3310	SVTSLKVTSVCLTSAAASCRS VLMRSTAE LQCASHLTRKRKA ARRLISLMMTARKARKITRRW RIGEAADLVGVSSQAIRDAEKA GRLPHPDMEIRGRVEQRVGYTI EQINHMRDVFGRRLRAEDVFP PVIGVAAHKGNDPQGTASMYH GWVPDLHIHAEDTLLPFYLGEK DDVTYAIKPTCWPGLDIIPSCLA LHRIETELMGKFDEAQP NLGIG TINVVCAADV LIVPTPAELFDY TSALQFFDMLRDLLKNVDLKG FEPDVRILLTKYSNSNGSQSPW MEEQIRDAWGSMVLKNVVRET DEVGKGQIRMRTVFEQAIDQRS STDTSLS TPAAPMVDSL IARVG VMARGNAITLPVCGRDVKFTL EVLRGDSVEKTSRVWSGNERD QELLTEDALDDLIPSFLTGGQT PAFGRRVSGVIEIADGSRRRKA AALPE\SNYGV LVAELDDEQMP AYPRLGNDYRPTSAYERGQRY ATRLQNEFAGNISALADAENIS IITRCINTAKLPKSVVALF SHPG ELSARSGDALQKAFTDKEELLK QQASNLHEQKKAGVIFEAEVI TLLTSVLKTSSASRTSLSSRHQF APGATVLYKGDKMVLNLDRSR VPTECIEKIEAILKELEKPAP
21707	52075	A	21835	783	2371	
21708	52076	A	21836	3236	4718	
21709	52077	A	21837	1	2481	

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21710	52078	A	21838	2450	3963	LLTAPITGGIGTINVVCADDVMI VPTPAELFDYTSALQFFDMLRD LLKNVDLKGFEVDVRILLTKYS NSNGSQSPWMEEQIRDAWGSM VLKNVVRETDEVGKAAPMVDS LIARVGVMARGNAITLPVCGRD VKFTLEVLRGDSVEKTSRVWS GNERDQELLTEDALDDLIPSFL TGQQTAPFGQRVSGVKEIADGI RRRKAAALTESDYRVLVGELD DEQMAALSRLGNDYRPTSAYE RGQRYASRLQNEFAGNISALAD AENISRKIITRCINTAKLPKSVV ALFSPGELSARSGDALQKAFT DK\EDLLKQASNLHGAEKSW GCYFEAEVITLLTSVLKTSS\A SRTSLSSRHQFAPGATVLYKGD KMVLNLD RSRVPTEYRYGVFL NVLLPATKYFQLHDP SLRNMEL NYSLASEDLVLKGLRVLLVEG NDPQGTASMYHGWPDLHIHA EDTLLPFYLGEKDDVTYAIKPT CWPGLDIIP SCLALHRIETENYNG
21711	52079	A	21839	1573	2858	EPVFEQAIDQRSSTDTSLSTPAA PMVD SLIARVGVMARGNAITLP VCGRDVKFTLEVLRGDSVEKTS RVWSGNERDQELLTEDALDDLI PSFLLTGQQTAPFGRRVSGVIEI ADGSRRRKAAALTESDYRVLV GELDDEQMAALSRLGNDYRPT SAYERGQRYASRLQNEFAGNIS ALADAENISQ*ICWKYFCAG*C GKYFRKIITRCINTAKLPKSVV ALFSPGELSARSGDALQKAFT DKEELLKQASNLHEQKAGV ISPPEEVITLLTSEIKTSSASRTSL SSRHQFAPGATVLYKGD KMFIT VKIAKRSQAPCMKSNNALIVIL GTVTLDAVGIGLVMPVLPGLLR DIVHSDSIASHYGVLLALYALM QFLCAPVLGALSDRFGRRPVLL ASLLGATIDYAIMATTPVLWIY PLVNSPSC
21712	52080	B	21840	63	368	
21713	52081	A	21841	189	204	SLPSGIKPQSSSKASSRIQVAPT M*SLPRQPLAWPSGHEACPQG
21714	52082	A	21842	153	370	LIAGAFRKASGGNNIFRRPKTL* LRRQPR*PQKSTPRRNKLGHYA IIFPLTTESAVKKIETNTLVFT VLV

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21715	52083	A	21843	842	1770	CTPEKCLPAVHRRNWLRNAEPP VWKRHLSPICRKRQGRATKPK RRPWYTTPTTRRVRDVALRPYS RH/GRQPHAKKKIRMSLTFRRP KTLRLRRQPRYPKSTPRRNKL GHYAIKFPLTTESAVKKIEENN TLVFTVDVKANKHQIRQAVKK LYDSDVAKHTEERRHDEQNNIL TREAKNRNDNTRNRARTETNT ETQKNSGYQALISFHSYYSDTS DNKAHLVSYQSGQCTYDRLG WNLLIRMTCSRSLQHTYDIQSTQ IASCFHPVSVRVNLRLYCANYG GISAVFMPLRKELLILTRSSNSK VSQRLI
21716	52084	A	21844	353	605	EMAPKAKEAPAHPKAEAKAKA LKAKKAVLKGVRSHTRKKKIR MSLTFRRPKTLRLRRQPRYPK STPRRNKLGHYAIKFPLTT
21717	52085	A	21845	301	946	PGSYLKPLSWTVALSLRPGFMS RWPCQRLTWQRRSVTQASGAS GASLCASRLPRDKTAPKAKEAP APPKAEAKAKALKPKKAVVER CPHTHAKKRIRMSPTFRRPKTL RLRRQPRYPKSTPRRNKLGHY AIKFPLTTESAGKKNKKNNTP LVHCGC*RPTRHQIRQAVKKL YDSDVAKVTTLICPDKEKKAY VRLAPDYDALDVANKIGII
21718	52086	B	21846	12	115	
21719	52087	A	21847	1397	1489	
21720	52088	A	21848	519	747	SGSVISPIAAT*YRIFAVL*SVQ* **AGPGDLSGDGELP*SVAIQPN VFIAVSSITCNWLPFGKCGSTY WMCQSM
21721	52089	A	21849	185	456	QHQPLEVASQWKVCSVSVKLL SQSSDVTRVPLEGLDRLSERSG SLSVL*SGILWALDAASQLVSL LP*LTRYHDPRVSSL/SSTYV*SP
21722	52090	A	21850	789	1086	

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21723	52091	A	21851	1	766	SGRKEANYYGSLTQAGTVSLG LDAEGQEVFVPFSAVLPMVAP NDLVFDGWDISSLNLAEAMRR AKVLDWGLQEQLWPHMEALR P/LGLAVYIPEFIAANQSARA\D N\LIPGSRAQQLEQIRRDIDFRS SAGLDKIVLWTANTERFCEVI PGLNDTAENLLRTIELGLEVSP\ STLFAVASILGGLCLSFNGSPQ NTLVPGALELAWQHRILVGGD DFKSGQTKVKSVLVDFLIGSGL KTMSIVSYNHLGNNDGEN
21724	52092	A	21852	2	2122	WKSWMVFTAMKLVKAHRLK LRLKGYLPVTCLEGRNQRIAA TIRHNRARGRHQITAMSEIVRE LSQLGWDDNKIGKELGMDSD VLRLKQINGLQELFADRQYSRA WTLKLAQAFSCCQRRFLGK TETNQFMWEGIGAKHRQRNRR YAVLLRQPLAKLNIIQARYPNQ HRQHAGECNPHCQAGGDIVDR CPARCFTKGDSDGSPQATWP FHNSATMTAKRLSEASQCGSK KSILRERIYRPSITRYPFQSTMN HPLPEQTLGCIATDYGSSPSPDR SPGPAHYWTDHSTANIRYQV AAEENGEYTYVERVKIPLDHGT LLIMERATQADWQLEQIRRDID DFRSSAGLDKIVLWTANTERF CEVIPGLNDTAENLLRTI/D/RSV WEVSPSTLFAVASILEGCAFLN GSPQNTLVPGALELAWQHRVF VGGDDFKSGQTKVKSVLVDFLI GFRLQRP/SSIVSYNHLG\NNDG ENLSAPLQFRSKEVASRSNVVD DMVA\SNPVLYTPGEEDHCV VIKYVPYVGDS*RAL\DEYTS ELMLGGTNTLV\HNTC\EDSLLA APIML\DLGAA*PSCCQRTFLA LDIGTPSRPFHPVLVPAQAFF FKGATLSPGKPVLVNAAFSAS AAAIENILRACVGLPPQNHMLL EHKMERPGPSLKRVTWPWLPP YPMLNKKGPGSRCQPMAPVD
21725	52093	A	21853	1	1908	
21726	52094	B	21854	1	1833	

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21727	52095	A	21855	1	749	MFQLMKASSGGEAACMPAGL MENYKHTTVLLDEAVNGLNIR PDGIYIDGTFGRG\LGEGRLLA IDRDPQAIAV/AKTIDDPFSSIIH GPFSALGEYVAERDLIGKIDGIL LDLGVSSPQLDDAERGFSFMRD GPLDMRMDPTRGQSAAEWLQT AEEADIAWVLKTYGEERFAKRI ARAIVERNREQPNDELEEIEQA LKSSLNVLAPGGGVSIISFHSLE DRIVK/RFMREHQFCVVVRSGV GLKT*SVR
21728	52096	A	21856	532	1418	CFASGFIGELRKNIVGFIEQDHT RGLVFRLTPGRTLRAESLNLVIC LPMNFQPYDSADWVITGVPF DMATSGRAGGRHGPAAIRQVS TNLAWEHNRFPWNFDMRERLN VVDCGDLVYAFGDAREMSEKL QAHAEKLLAAGKRMLSFGGDH FVTLPLLRHAHAKHF GKMALVH FDAHTDTYANGCEFDHGTMFY TAPKEGLIDPNHSVQIGIRTEFD KDNGFTVLDACQVNDRSVDDV IAQVKQIVGDMP/VYLTLYNCG GPS*QFHSRLPAQSPDRCLAR YLAPQCVPDFRTLQR
21729	52097	B	21857	64	1842	
21730	52098	A	21858	1	503	MRWLVSPIEDTGHKALLFACL ALHRACVSGHCLSPKCVGVGDG RHEMVAPGLFLDWLLDGTGV WDGTSTNVEGAQEHAVLILLII TDGVISDMEETGMPWCRLPSCP CPSSSGRGQCLRCHGVPGWG RRMLRSHTGEEAARDIVSSFPF ESSATMSEEVYDPRSLYERLQE QRTGSSRTARQEAVVGSKVTV SQPGHRQETT VLEHLVQY/FILL IITDGVISDMEE/TRHAVVQASK LPMSIII/VGVGNADFAAMEFLD GDA/GMLRSHTGEEAARDI/VQ FVPFREFRNNVRGGL*PSISI
21731	52099	A	21859	2223	2363	

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21732	52100	A	21860	3	693	GDDGKWMLVHRTEVIKYTLDP VWKPFTVPLVSLCDGDMKPIQ VMCYDYDNDGGHDFIGEFQTS MSQMCEARDSVPLEFECINPK KQRKKKNYKNSGIIILRSCKINR DYSFLDYILGAGCQLHVSPLGID FTASNG\DP LDPSSLHYINPMG TNEYLSAIWAVGQIIQDYDSDK MFPALGFGAQLPPDWKVSHEF AINFNPTNPFCSGVDGIAQA\YS TCLPHIRFYGPT
21733	52101	A	21861	1	2231	MYSQEGNQFCNRTDCQELLPPP PAPMAHIPSGGAPAAGAAPMG PQYCVCKVELSVSGQNLLDRD VTSKSDPFCVLFTENNGRWIEY DRTETAINNLP AFSKKFVLDY HFEEVQKLKFALFDQDKSSMR LDEHDFLGQFSCSLGTIVSSKKI TRPLLLLNDKPAGKGLITIAAQE LSDNRVITLSACRRLDKKDLF GKSDPFLEFYKPGDDGKWMLV HRTEVVIKYTLDPVWKPFTVPL VSLCDGDMKPIQVMCYDYDN DGGHDFIGEFQTSVFKMCEAR DSVPLEFECINPKKQRKKKNYK NSGIIILRSCKVNQRGQARARG QVSGHTEGTDRA LDLEPARPVF KSRLCHILALWPSELHLTRPQSP HLWNGDINEAEHVQGYSSLTFL CGGQGRHELTFQGLSWWENCH CELLPPTVGMQGAEDIGWGHP VLSGISVTVTMINRDYSFLDYI LGGCQLMFTVGIDFTASNGNPL DPSSLHYINPMGTNEYLSAIWA VGQIIQDYDRPRSFLKPDPWAG TEAVTGQHV MF SVYETHVEWG RQIGLPD VANQNTRHPVKFEFQ VSHEFAINFNPTNPFCSGVDGIA QAYSACLPHIRFYGPTNFSPIVN HVARFAAQATQQRATATQYFILL IITDGVISDMEETRHA VVQASK LPMSIIIVGVGNADFAAMEFLD GDSPHAALPTRGRRQPRDIVQF
21734	52102	A	21862	694	825	QPGLSINIEAGAVPRPFARRYW GNLG*FLFLGVLR CFSSPGSPH
21735	52103	A	21863	1032	1127	FYAKAEAGDRTVA*PHKPKMF LSIHHRVAKI
21736	52104	B	21864	1	564	

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21737	52105	A	21865	43	617	PIIQKVRSHTPKRAPTACTYTVS GSFSLPSPGFFSPPHGTGSLSVS QEYLALAEWSPHISARDCTCSG LLIELPSTGIFVYGAVTLYRAPF QTLPVTHALIQALGCSPFARRY WGNLG*FLFLGVLRCSFSSPGSP H*PMDSVNDVSVKHT/EVSPFG NPGYNGSYHLTDAYRRLARPS SPLTPGHPPLYG
21738	52106	A	21866	2969	3593	
21739	52107	A	21867	1219	1503	HFTDGQNNRQHGCQVRRQAG KQVVCKVEHQNQYNHRCVW* ESFQVRTHGTGEPVKNKTRTSQA VSHHNQSCQVDQCPCAVIAG NVFPRHNVQGGH
21740	52108	A	21868	193	378	
21741	52109	B	21869	1	1473	
21742	52110	A	21870	3536	3926	PKMVRWLARKCWNTVSTVRC FWMAMPTPVFAPCAAIAKTASA R*MSWASSR*PNRGCVKSATLR QFS*VAAMK*PPVAQ*WWLGR NASTAGGDSGAGRSLDDGEPTP CGMGLEQKRHGNPAGCVAPSR WS
21743	52111	A	21871	140	901	MAMSKVKSITRESWILSTFPEW GSQLNEEIEQEQVAPGTFTMW WLGCTGIWLKSEGGTNVCVNL WCGTGKQSHGNPLMKQGGQM PPMAGVKKLQPNLRTTPFVLDP FAIRQIDAVLATHDHDNDHIDVN VAAAVMQNCADDVPFIGPKTC VDSWIGWGVPKERCIVVKPGD VVQVTALEIHAPDAFDRTAPIT WLADQKRRRTVKG/MDDAPL* QVSYRPSTPPRCCYWSLLSSSV YYSKRPFAGHYARLCIPFMD
21744	52112	A	21872	287	392	
21745	52113	A	21873	1	492	
21746	52114	A	21874	569	1061	SGTVLDM/SEYSRVQIRKQPYLS KGYIPVRQKTKAAWLLKAVTFI DLTTLSGDDTSSNIQRLCYKAK YPIREDLLKALNMHDKVAAGF PAGQTHLKTREEIRLAVEDGA TEIDVVINRSLVLTGQWEG/LYS PVVYSALPCNI*HSRLFLPSGNA LLLWLWCLHS



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21747	52115	A	21875	2	1072	ARSNIRMVTAFRSLPAGSSGAA RA\MSAHNRGTDLDSWISKIQ VNHPAVL\RRAEQIQARRTVK KDWQAAWLLKAVTFIDLTTLS GDDTSFNI*RLCYKAGYPIREDL LKALNMHDKGITTAAVCVYYP ARV\CDAVKGTSRPAG/CVNIPV GISRAAGF\PAG\QTH\LKTRLEE I\RLAVEDGSLQKIDV\VINRSLG A*QAQWE\ALYDEIRQF\RKAC GEA\HLKTILA\TGELGTLTNVY K\ASMIAMMAGSDF\IKTSTGKE TVNATFPVAIVMLRAIRDFFWK TGNKIGFKPAGGIRSAKDSLAW LSLVKEELGDEWLKPIELFRIGA STLLSDIER\QIYHSCGLGRYGS LFMDLSQCL
21748	52116	A	21876	3	221	
21749	52117	B	21877	49	342	
21750	52118	A	21878	1	828	
21751	52119	A	21879	1362	2405	RPPWRHWDGNSSVLVHFQLHF LLRPLQTLSLGLEEELLQRGIRA RLREHGISLAAYGTIVSAELKG GSRPCAVWWPSEPGAGRCPGN SFSCGNSQCVTNVNPECDDQED CSDGSDEAHCEGLQPAWRMA GRIVGGMEASPGFEPWQASLRE NKEHFCGAAIIN/DQPLRS*NHR FQDPTKWVAYVVRPTSAARRP APCGPSKKA/WISGWGYLK/EG LP*ASRPAMVKPEVLQKA/DW ELLDQALCASLYGHSL/TDRMV CAGYLDGKVDSCSVLFLFRGTI SFFFSEDRNLIRYVLLYSIFVVN CISGKPQPGPPVLRALCQHPHQI DAGPQYRASCWVTVPKLQGIF
21752	52120	A	21880	600	904	SVSLLDEETALPFSWDELRLSA LLDT*AAFQEIELAFQDPQCVG LLTAP/YADAAFGSTDIAMFLL VPILSARKPASPRSS*TFSHLATE PLPASIK*AAA
21753	52121	A	21881	393	572	
21754	52122	A	21882	165	432	PGMAVSYEKISKYPVEFLPAQA NIAGHNDAPEEREPEFQW*LWLL LPNF*LQEKCSPTLCHFLSRRTQ SEFPSSTAAGNLSVSLLYPCKS
21755	52123	B	21883	1	1011	

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21756	52124	A	21884	783	1234	YYRRCGAASPHGRDPVQIG*TS SQPR*SA YRN/PASVIPVARHSA RAPAILRP*VVVAERSERSIPGL RATPAEIRTTAPSSAGVASSPE KPLIFTAIDSHTGSHWSDIIHVC AKKLQNYVPKLNALLTPSIY VTRTTRSGPIPPARQ
21757	52125	A	21885	249	398	GYFDIFS YDTAIPGQSAEQDAR ED*AF*MPDRAYSQPCSSLVFP KGCKK
21758	52126	A	21886	309	845	CGAREERGRGCHHVHSQLRGP GPAPGQVQQPQLVPAPVPELP GLRGLSWQARRTRARHRQCQV QDHQPDPTVHAQLRGVQLGEA PLQLHHGD*DHRAP*GYFDIFS YDTAIPGQSAEQDARED*AF*M PDRAYSQPCSSLVFPKGCPVPG RGCAAGVQAAGAAHPPLDHPA LQPLQGR
21759	52127	A	21887	1236	2100	DLICGRGCQGRPRHLQPQTEL EAPVPAERPGRGPAVAARSDP RAQAEDVPGYNPLSGKPAKQQ VHEGHHPGAPGHRPAGGAAPV AGGPHRCLPAQPARPCGGAAEP RGGPAGAH*ARGSRAAGEGQP WWPSPRLGAGPPAAPVHAAPG SHLLPGHHLPTQPSALAAAQ\PL AEEPREQ/PGAGGPQPGSPTLRG VEVVPLPHAAGGAGAVPVGGA ACPTAPHPAASAPAVLLSQLG TQHPPRRDPPHCSCAGIQDSGW AGPPALWSLLHVAKPAQARRP CALLHPGV
21760	52128	A	21888	1931	2185	AKAFSFFRYISRVSRNRTCLSR SMRRSFDSSNADAAFGST DIA MFLVPILSARKPASPRSS*TFS HLATEPLPASIK*AAA
21761	52129	A	21889	1254	1760	
21762	52130	A	21890	1	2001	SIRRPKRARPIRIKKIPEQQG/PQ PAVLPVQTVATRDRELPMPP VGPETLKRDPVVRAMTIPATAA VYKPYWGATPLPIAKPSAG*Q *SRRFSKGYFGD
21763	52131	A	21891	195	545	HSPGSFYSSRDAQSPAPAIRAA V*AEVQ*TPLCHDRITHFPEDW RGWQRS*F*PAACRVAGSLPVP VSPQIQHPYCRSSAQYLPCGAG LPLPGFDRLCPRSLEQGLAVTG GSCGPS

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21764	52132	A	21892	825	1299	YSCRTEHPRLATAEYRHHQRA ADAGR*RHAGVAFYPIKERYR QPEPAFSYQ/PRRWSASRNRPS R*RMRRFPANSSTPFPPAPPLRR KRVASLIGGRMLRLTGAGIAEE RMIAPQLPECILHELTERPHFPF LGIDLILTCTGERLLAIPRTTHVE
21765	52133	A	21893	1460	1810	RATHVLTWVRGTPKRAEMILG SSRSMSAAAVTVLISPATAQRW ITRAP*PSPIRSPSVRLTATRPSS ITKARALSPMAAPALRSTVTTT PRITVEKPLLMEKIPRVPKSRAI SAL
21766	52134	A	21894	231	704	QSQKPDTRGRLFVAKAPPCVQR HKVRWLRLVMITSAHYLPLRR* *PAHPASGGCCPNRAKYTQRPA E*ISYRPD*EAVR*SRAPAKVTQ SNPASRVALRRPAPRAVHQATII PVDESTLLPAPLAVSARQKVRQ AIPLRDSVRRPTLDVRHRATG L
21767	52135	A	21895	1291	1925	RQLLRWSNR*IAR*SLTQPARRF PAYHYAHPAAAAAPGDPLGAD LQLCARHYHRQRHCVPRHAGY PRSDGLHPQPRGRWRIRCSACL RVPF
21768	52136	A	21896	1	445	MFISGLDDFFIDVVYWVRRIKR KLSVYRRYPRMSYRELYKPDE KPL/DDYGSGVE*NGRHRQYGR AGGDHARLRKLSYLCWHLRQR PRYSA*C*RSVRSLEPCA*GSLR ASWP/HPAKPTV*TTCTWTPSPN LSVAPISLLLVLFCMTPKM
21769	52137	A	21897	79	377	SRKSGISIGAVKRPTH*GS*KAR SIC*NAAYVSKKAESLSSFPEKS ESTQRVKAVLSS**ASQGCDDT AQYVLLSFKGSQQA*QVCGR* KAY**DLSRE
21770	52138	A	21898	1282	1535	GSTYEIASATPSPSAKPSNRSPSP MSRPQSNPKPNLHSC*P*GNL RSTPESGK*ATPPPPPAYTLVLF KLANPQLPEESPAF
21771	52139	A	21899	3775	4031	CRRTAASRTPRKRTQTAPTHAT NKPQKPQTSTDRGNRREPEKTE PS*HLRPNPQEPGRRGQTQQEP APRHQPPKQGEPTTPQKQ

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21772	52140	A	21900	1	2595	MESHTVTDYNFGRLLNESFAN CETDRNYLGIFKCGFWLSGTRK SAFLTKSQVTLTRPVDHTLRNE VLGSTKYQVPGYRRKTNTNLE ESNVLIGYDVAPGGGKQIDGKK AEGRELMVPVAGRPLCRSSSM ELLLLLPLHIPREQMLLADAYW NLHQSCQSKTSPDTAKCPLDRC PRVFKSQSYKASTFDGLSMDTE VIKSNGKQGWRRRLANMKDI DKQTQAATFVLSQGMQRSGND RIILVTGASDGIGREAAMTYAR YGATVILLGRNEEKLQRVASHI NEETGRQPQWFILDLLTCTSEN CQQLAQRIAVNYPRLDGVLHN AGLLGDVCPMSEQNPQVWQD VMQLFRAGIINADPGAFFVTGF RRYCCFTLCCRSFRFGFYRRRF RHRSCRQRAMRHS GTGQGQGN EQCFNSVFHTVFSLFVNSGITLT AVKTVNKKWQCSEMEKAAKAT FSCYSCNAFFCEAASGLLLFQRI ANFDFRLFTQVTHQSFKDDLGI KMETTKPSFQDVLEFVRLFRRK NKLQREIQDVEKKIRDNQKRVL LLDNLSDIKPGMSVEAIQGIIA SMKGDYEDRVDDYIIKNAELSK ERRDISKKLKAMGEMKNGEAN RKERSSMFRDRPLKRMKSKRD DDSYDEDVEDDEGVGEVRVHR VNHAPANAQEHEAARSPQHQ YQPPYASAQPRQPVPQPPAQV
21773	52141	A	21901	1	96	
21774	52142	A	21902	105	430	ASIFVMLVRGAEPMEKRQQRG LFTVPGLLLAFCSHVLSCVNPLI PVDNPYYPLSELIPAPPQPNDR AQRVSESGRAPNTQTASPRAL ADSLMQLAR\QVSRLESQG

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21775	52143	A	21903	843	2055	HHRMAQNLSRYGNDKRPEESQ FRVVNVKPVTLVDVAEYAGVS YQTVSRVVNQASHVS\AKTREK VEAAMAELNYIPNRVAQQLAG KQSLIGVATSSSLALH\APSQIV AAIKSRADQLGASVVVSMVFR SGLVACHTAPHNLL\ARKRGA GLIINYPLDD\QDAIAVEA\ACT NVPALFLDVSDQTP\NSHIFSHE DGTRLGVEHL\VALGH\QQIAL LAGPLSSVS\ARLRLAG\WHNFL TGN\QIQPIA\ERIEGDWSAMSGF QQTALQMLNEGIVPHWRLLVAQ RSRMALG\AMRRHYPESGLRV GADILRVGGNTTIPED\SSCYIP AL*PPIKQDFRLLGA/QTSVDR\L LQLSQGQAVKGM\QLLPVSL\V KRKTTL\APNTQTA\SPRALPRF H*MQLA\RQVSRLESQQ
21776	52144	A	21904	1	1201	
21777	52145	A	21905	1	492	
21778	52146	A	21906	646	934	
21779	52147	A	21907	1	1713	MLCTKWDKLGLEKNAGKNKN AYKWYGW PANAPDEPHIEQLV GECRV MRQLKRLISRIAPSPSSV MVGESGTAIPVVS\HAEFKGGF ADIGVHYLDWTSRTTEKSSTKS HKDDFGYLEFEGGANFSWGEM YGFFDWENFYNGRHNKPGSEQ RYTFKNTKPYLSWVD\TGFSLYL HAYGTYGSANRVN\FLDDM\FL AGFGFQF*PAGGW/WGSNPFFA K\RYTRSKPYTGDNGY\IAG WVAGYNFMLGSEKFTLTNWN EYEFDRDATYAADFLPLYDVD CQDNGNLEYDTYSQPEWKHNL FDHYLA\VLRYFKDESGKEQFSG AVVKTREATPGKEIEAITRRML DFSPRLKKLADCPSPRPVFEALC ICSM\LDALLLLCPLDYHASCDN YSYALLDPQGFPLPHRRLWGPY IDVDVPMLHLIQA\HAWAQDALL SCLYSDLLYMSSFPYPAGTLTR LMGVTSYNHKNTLLTYCITLMS TIRFAYDGDDEIAMKYTD\FLKG ELSMNIRPLHDRVIVKRKEVET KSAGGIVLTGSASAKSTRGEVL AVGNRILENGEVKPLDVKIGD IVFFNDGYRGEI
21780	52148	A	21908	2060	2404	
21781	52149	B	21909	1	1377	

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21782	52150	A	21910	52	1719	IGQVVDVDTCTFTRIHLVFNFD NDTGSIHVLNDTTTTFSYRSYTG VNGNSTFHTSTNQRLISAQSRN GLTLHVRTHQCTVGVVVFQERD QGRTDGYHLLGGYVHVNLV AAEQAGFAFATASYQVFYEVA FFIQVGVRLGDNVVAFFDSRQV VNFVSYNTVGHFTIRSLKEAVF VSLCVHGQRVDQTDVRTFRGF DWTDATVVSRYVVSNFECTF TGQTAWAECGDTTFVRNLRQR VVLVHKLRLQAGTEELFHCCG SQDPQQPWGWNLRVNPLAQT GHAHEAQRKQWHKGNEEADD PEPERAFTPGFVQFETERFRPPV GHPCEAAEDHAADDHVMEVR NQEAVMQNEVRARYGQQA SHPAHREGDDKTDGPQHRME HDAALIHGEQPVEDLHPGRDG DNHCGDTKEGVYVRARTHRKE VVQPNDERQHGD TDGCPYQRG ITKQFTTREGCRNFGEHTENRQ DQDVNFRVAPGPNQVDVHHH VATHIVGKEMGAQIAIQGHAT YRQNGKDL*SNRGVASGNPQC RHRAHRRATDCQTVIKQPVFFG

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21783	52151	A	21911	608	2508	YITATSCSGWMIRWCAKAAKC CA/CSRGPGGKLRHKGAEETL CGNTRVLIAPQLPAVIIATLSGS RSQTGRREGPTPTTVMIQDHTG SSTDDECSANVQRIFNRIMLCSE VSRPRTIPFHDLAQSFRQFRNVK CLWCAFEQAQLMRIQPAIVMV KTIHRERLNSGQFRCHQEARNI PPHRQSRFLASRGLLAELMFML YGIGELPEIVTLPKEIRGNVDNS RHAVFLANSMPPELRFIRTHGS RFTSQDCTLFNWLARIITPVLQS WLNDDEEQVALRLLEKDRDHH RVLVDITNAVLSHLDLDDLIAD VAREIHHFFGLASVSMVLGDHR KNEKFSLWCSDLASHCACLPR CMPGESVLLTQTLQTRQPTLTH RADDLFLWQRDPLLLLLASNG CESALLIPLTFGNHTPGALLAH TSSTLFSEENCQLLQHIADRIAI AVGNADAWRSMTDLQESLQQ ENHQLSEQLLSNLGIGDIYQSQ AMEDLLQQVDIVAKSDSTVLIC GETGTGKEVIARAIHQSPRRD KPLVKINCAAI PASLLESELF GH DKGAFTGAINTHRGRFEIADGG TLFLDEIGDLPELQPKLLRVLQ EREIERLGGSR TIPVNV RVIAAT NRDLWQMVEDRGVI
21784	52152	A	21912	147	2699	MTIRAICSCCPLPDA*NVLM*IY MSTFQASGNGQQLQIARIVIQNI TG
21785	52153	A	21913	432	1016	FCPSSCLAATAPAA*AGWSFLP SPA EQNRWRFP LSRFCQIPAPL/ LGTLIISLSVFC SILAASAAEIPG SVDGIYNKSPSLI/WVKIPRQLY *AAREPSAPKAPPPAAWFSASA VLSATA MINTNQKAIERVTAFR RNFATDPVAHQDRDHYDRQQR RTRHRIRFGERQRAKQTPFLPFQ GEDRDKRQRDNQQQTDK

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21786	52154	A	21914	1	1146	MTTSMLNAKLLPSAPSAAVVV VRVVVVVGNAPTSRKVGPEEK DWSMASSGTTSTRKRFTGAEFI VHFLEQ/PGH*DCDRHSG/S/CSI LPVYDALSQSTQIRHILARHEQ GAGFIAQGMARTDGKPAVCMA CSGPGATNLVTAIADARLDSIPL ICITGQVPASMIGTDAFQEVDT YGISIPITKHNYLVRIEELPQV MSDAFRIAQSGRPGPVWIDIPK DEQTAVFEIETQPAMAEKAAAP AFSEESIRDAAAMINAAKRPVL YLGGGVINANARVRELAEKAAQ LPTTMTLMALGMLPKAHPLSL GMLGMHGVIRSTNYILQEADLLI VLELAGVQTVDTDVNASKPAS ATRHIAFQTVTIGCDRLADSV VFPHSVDDIGKVAA
21787	52155	A	21915	1001	1037	MVGMASSCMPAFTRLELYSVIS QSTQIRH/ILARHEQGAGFIAQG MA/RTDGKPAVCMACSGPG/AT NLVTAIADARLDSIP/LICITGQV PASMIGTDA/FQEVDTYGI/STM TLMALGMLPKAH/ALSLGMLG MHGVIRSTNYFCQEADLSIVLG ALFDAGQIGKTSSFCPNAKI/IH VDIDRAE/REFPCPIPKACDLLS H/YGLINAVAACVDDNAIITTD VGQHQMWTAQAYPLNRPRQW LTSGGLGTMGFGLPAAIGAALA NPDRKVLCSFGDGLMMNIQ* MIIAIPITGVKIFNWCSPCIRPHR VPFCDAVAIGFIVTFSDVIQIASI YEIPCRDPTGVASTEYSSSSCRR RRNTTLCDPGSPAQRQSPQAGQ NPSCPAHRRSATGVGD
21788	52156	A	21916	135	449	
21789	52157	A	21917	5	214	
21790	52158	A	21918	2	337	IGIAKHAQQLLLNVMQTRAVG AEVQTVSATGSAVRQALANNL QPFAlFFQINA/W**RAGRYPDD HGISPETALYGWHTSATGTAG MR*SVRPWLQSGQGCSGWRRQ QPRWSP
21791	52159	A	21919	1	774	



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21792	52160	A	21920	2	914	RHIRTPAHLERFIVDIALNVADG HRAKLIVQSAGTFAQTVLRADS SANFRQGVGLVRQFRFKNTPL VGELQPVRDVVVYRAFPLAVW VAARQAAVSLRFGLAFGKRLV NFNKLNFA DLQRFLWRINAAQ LSCATTT/ADPAVLLHHWTSV* PAQI*WR\S*PVRQNLFTALRAG MLHMLGDKTTQMLFMDRQSV NA*DLDQFRVNAFAEIAAFIEN VSETAGHARTEVNAGFTQNAD DTTRHIFTTVVANAFYHGDSTG VTHAETFTRAACGIQTTTGRAI QAGVADNACFMAAEGGTNRR TNGD
21793	52161	A	21921	204	371	PGPAGAQSAALYRWSPGQAVS RADWFRFADC*IYPENRRNAGS AYRRLSPAYCG
21794	52162	A	21922	2664	2970	TPDTAPAGCRSRAPDGPSLPRQ MPRRRG*FHTARYCRTPRAITA *R*TE*STCPARTGEWYAHARY APGTSRQTATMPPTMPRRRASS YSSTQPDGRRQNC
21795	52163	A	21923	318	459	
21796	52164	A	21924	577	888	TNSSNQQLAEGNRERLIGRNTA GPERITAGRR*LFSCQNRPCGW RFNKCHIGMPVVVIWRIVMGI QHDDLVPFGMRVNRVNMQF AKTLGQRALLLRNSLIA
21797	52165	A	21925	3	711	AGAHSGPSHPALATTAARQSV AGNRSGISGFSGHSRNPTRMSA RCL*SS\ALERLMRRLNGGEIQI SDVTTTTPSILSPQVYCSAMSRN LCTRATPRWQSAGHPYCRWTA SYCAIYSDRSIRGNYSTRQSFAS GRRVPTGSWQKTESEKDCSTC CANWANDRTPLPTSTSSANCST NVQTSVVPVLRRIWLTSLRV VLTVSLKSVCARGTSPQASCWF VKRAASSATSPVVITTC
21798	52166	A	21926	244	535	TRYPDDHGISPETALYGWHTSA TG TAGMR*SVRPWLQSGQGCS GWR RQQPRWSP**RSC**CSVY PATL*FCRLYNQTS GPGHSDLP AFPDSDRRKI

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21799	52167	A	21927	869	2923	PKKDLKIATSAMMEAAYSV*SR TLFW/SPVRDSQVTDQTWQGL MSQLRLQGFDTLVLQWTRYGD AFTQPEQRTLLFKRAAAAQQA GLKLIVGLNADPEFFMHQKQSS AALESYLNRLLAADLQQARLW SAAPGITPDGWYISAEIDDLNW RSEAAEQPLLTWLNNAQRLISD VSAKPVYISSFFAGNMSPDGYR QLLEHV KATGVNVVWQDGSG VDKLTAEQRERYLQASADCHD GAAPHGK\VFKLIIA*RARR
21800	52168	B	21928	72	690	
21801	52169	A	21929	1	2241	
21802	52170	A	21930	1607	1893	NKRIFPSDVKVAEPDHSCV*SFR IGSLASNLSLSLKTRPAFFQLLIK HVD/SMCHQRLSGSRKSKHNVI AVVFSYCSVS VFSASCPHQVL LQTQYF
21803	52171	A	21931	1	3960	
21804	52172	A	21932	1	1281	
21805	52173	A	21933	1	1491	
21806	52174	A	21934	1	1254	
21807	52175	A	21935	1	723	
21808	52176	A	21936	740	880	NKRIFPSDVKVAEPDHSCV*SFR IGSLASNLSLSLKTRPGFFPTVN
21809	52177	A	21937	1	1191	
21810	52178	A	21938	1033	1248	
21811	52179	A	21939	1	1425	
21812	52180	A	21940	1	2784	
21813	52181	A	21941	676	1467	
21814	52182	B	21942	1	3288	

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21815	52183	A	21943	145	1929	VSGVIEIADGSRRRKAAALTES DYRVLVGELDDEQMAALSRLG NDYRPTSAYERGQRYASRLQN EFAGNISALADAECDNLKTCHT SHGSVMAETAVINHKRKNSP RIVQSNDLTEAAYSLSRDQKRM LYLFVDQIRKSDGTLQEHGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPEEDAG DEKGYESFPWFIK/RPSRGLYSV HINPYLIBEEIGLQNRFTQFRLS ETKEITNPYAMRLYESLCQYRK PDGSGIVSLKIDWIIERYQLPQS YQRMPDFRRRFLQGFCRFRNH HQTGFSPAGANQRGPLAATLSG PGGEGQSAVARLTGEKKNHPG AQYANRLSPRVGRFINAAGTTG FPTWKAGSERNAINDDVTYAIK PTCWPGLDIIPSCALHRIETEL MGKFDEGKLPTDPHMLRLAIE TVAHDYDVVIDSAPNLGIGTIN VVCAADVLIVPTPAELFDYTSA LQFFDMLRDLLKNVDLKGNSN GSQSPWMEEQIRDAWGSMLVK NVVRETDEVGKGQIRMRTVFE QAIDQRSSTGAWRNALSIWEPE CNEISIGVSLDQDGGSNSVLRK
21816	52184	A	21944	1790	2947	TDFSVRCKGCRTGPFLRLIFQDR IVGVELIAVF*NTGPRFSSCRLS WRRPFDKTCRMRWHQRLSGFP QEQN DGKQQPILC
21817	52185	A	21945	1	888	
21818	52186	A	21946	252	1863	RKNPFILH*LFR*TLRQTKPDDS AGKGVKI**HTQNQRSGRSQND F*RRLW
21819	52187	B	21947	1	1794	

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21820	52188	A	21948	138	341	PNPRGLLNTITPEHFKSKLHIPT TYRQSNGITASHYSYARN*RVG VMARGNAITLPVCGRDVKFTL EVLRGDSVEKTSRVWSGLLELL KAAASLVFLEQHKPYEEIGTSF GSVLVSVVGEGPFVEEDLRKSF PGRWDKKHKMFDAIEEPKKDS DKFDANDPILKDQTQEWGSA TFTSDGKIRLFYTDYSGKHYGK QSLTTAQVNVSKSDDTLKINGV EDHKTIFDGDGKTYQNVQQFID EGNYTSGDNHTLRDPHYVEDK GHKYLVEANTGTENGYQGEE SLFNKAYYGGGTNFFRKESQKL QQSAKKRDAELANGALGIIELK YDYTLKKVMKAADHFQTPVTD EIERANVFKMNG
21821	52189	A	21949	761	916	NKRIFPSHVKVAEPDHSCV*SFR IGSLASNLSLSLKTRPAFFQLSIE LSPT
21822	52190	A	21950	1	1437	
21823	52191	B	21951	50	1690	
21824	52192	B	21952	1	1032	
21825	52193	B	21953	1	1974	
21826	52194	A	21954	878	1202	SVYNKRIFPSDVKVAEPDHSCV *SFRIGSLASNLSLSLKTRPAFFQ LSIEVFRFPDKTCRLMCHQRLS GFPHEQTQRDSTCIQLLFRQRF AAASCPHQVLLQTQYF
21827	52195	B	21955	7	1702	
21828	52196	A	21956	527	665	NKRIFPSDVKVAEPDHSCV*SFR IGSLAFNLSLALKTPARVFSTVD
21829	52197	A	21957	469	687	
21830	52198	A	21958	2	1018	EGSDSRAFAKENNQKAYKET GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDNISDSWKNAGR VFKDSD KFDANDPILKDQTQEWGSA TFTSDGKIRLFYTDYSGKHYGKQ SLTTAQVNVSKSDDTLKINGVED HKTIFDGDGKTYQNGQQFIDEG NIPPATPYAERPYYFEDKGLKY LGKPTVEPSVCGGRLESPWQTA GVSPTVQKLKSLKFDVRGQEE S VWEKDEAALANWTPNHTCD NLKTCHTLHGSMVAETA VFN P KKLKNSPRIVQSNHLI
21831	52199	B	21959	7	1113	
21832	52200	B	21960	1	1188	

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21833	52201	B	21961	1	1414	
21834	52202	B	21962	1	1515	
21835	52203	A	21963	1652	1916	RKNPFILH*LFR*TLRQTKPDNS AGKCVKI**HTQNRSGRSQND F*RR
21836	52204	A	21964	1	1353	
21837	52205	A	21965	1	1507	MAAQDAMVTRTSSQTDCKEPG LKWAGVVLMLLLCWL MFQVL WEACQQKTGEHKTMLQMILCN KSYQQLRLVITPMYLM LGDWL SKNCGQNSTPSLGDNPPERQTQ EWSGSATFTSDGKIRLFYTDYS GKHYGKQSLTTAQVNVSKSDD TLKINGVEDHKTIFDGDGKTYQ NVQQFIDEGNYTSGDNHTLRDP HYVEDKGHKYLVFEANTGTEN GYQGEESLFNKAYYGGGTNFF RKESQKLQSSAKKRDAELANG ALGIIELNNDYTLKKVMKPLITS NTVTDEIERANVFKMNGKWYL FTDSRGSKMTIDDLHIHAEDTL LPFYLGKDDVTYAIKPTCWPG LDIIPSCALHRIETELMGKFDE GKLPTDPLMLRLAIETVAH*P AEK*HQNHSSPF*PRFFAVSLRT GSSYHCILSSH
21838	52206	A	21966	729	843	NKRIFPSDVKVAEPDHSCV*SFR IGSLASNL SLLINM
21839	52207	B	21967	1	1416	
21840	52208	A	21968	1	1794	
21841	52209	B	21969	1	1171	
21842	52210	A	21970	1108	1250	NKRIFPSDVKVAEPDHSCV*SFR IGSLASNL SLSLKTRPGGASRVP K
21843	52211	A	21971	1	2535	
21844	52212	A	21972	743	898	NKRIFPSDVKVAEPDHSCV*SFR IGSLASNL SLSLKTRPAFFQLSIE LSAT
21845	52213	B	21973	1	1605	
21846	52214	B	21974	1	1873	
21847	52215	B	21975	1	2946	
21848	52216	A	21976	1419	1498	
21849	52217	A	21977	1	2314	
21850	52218	A	21978	1	1215	

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21851	52219	A	21979	1	1851	PWISAPVPVDVVEGAMDSVTV LSFGGLMLYFCAGWPPARRWC FPESISCGSMERDQWWGLQVA KRAGLAGGQSGRTVLRERVRIE IASTHIALAARHSDWRCCRNGR YPARGPAALQNFQRYTGIQHV HRIGMAERMWCDNRNRHTVS SSGGNRLPNPGPDRSCDNLKTC HTSHGSVMAETAVINHKKRKN SPRIVQSNDLTEAAYSLSRDQK RMLYLFVDQIRKSDGTLQEH GICEIHVA\KYVEIF\GLPFAEAS KDIRQALKSFAGKEVVFYRPEE DAGDEKGYESFPWFIKRAPSPS KGLYSVHINPYLIPFFIGLQNR TQFRLSETKEIPNPYAM/RLYTN TLCQYRKPDGSGIVSLKIDWIE RYQLPQSYQRVWTPGINCPEPC PGVWTPGINCPGAWGIHGPFGS AENTGPLHPGQTSAQLETSLLP SLRSARELELAQLSPRRKQNR LQNIGVTPSLRVPWPKASNVQQ FIDEGNYTSGDNHTLRDPHYVE DKGHKYLVEANTGTENGYQG EESLFNKAYYGGGTNFFRKESQ KLQQSACKRDAELANGALGIIE LNNDYTLKKVMKPLITSNTVTD EIERANVFKMNGKWYLFDTDSR
21852	52220	A	21980	3197	5376	
21853	52221	A	21981	543	5690	RKNPFILH*LFR*TLRQTKPDNS AGKCVKI**HTQNQRSGRSQND F*RRWSRSY
21854	52222	A	21982	2241	2614	ETLTTLKTKAINTLYSKPTREQ KTDTKAKNLYLTKRTTAAART SSVKKAISFNALKNAMLS*RT APSVS*IRHRV*NLTMRSSSSA PSPWML*A*AWLCRYCRASCGI SSIPTASPVMTACC
21855	52223	A	21983	31	892	
21856	52224	A	21984	548	855	
21857	52225	B	21985	1	1825	

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21858	52226	A	21986	1	3146	MEWGKFKRLVLPSQGKSKPEQ RCQYRHTVGDQATLPLRSRVE KRNGEAEGRIRKLWDVALLC CVQEVINGERKPLRALTEVKSG FRLREDSKFDANDPILKDQTQ EWSGSATFTSDGKIRLFYTDYS GKHYGKQSLTTAQNQQFIDE GNYTSGDNHTLRDPHYVEDKG HKYLVFEANTGTENGYQGEES LFNKAYYGGGTNFFRKESQKL QQSAKKRDAELANGALGIIEN NDYTLKKVMKPLITSNTCDN
21859	52227	A	21987	1	3107	MNEMKREEKFREKRERNEQI LQEIRDYVKRSNLHLIGVSKSD GENGTELENTLQDIIQENFPNLA RQANIQIEIQRMLQRYSSRRTT PRHIIVRFTKVEMKEKMLRAAR EKGRVTHKGKPIRLTADLSAET LQATKEWRPIFNILKEKNFQPRI SYPAKLSFISEGETKYFTDKQM LRDFVTTRPALKELLKEALNME RNNRLVKSLAWASQNGFRSPA LLPLSLMLCAPLQEADGTNLG WLAHCGLLCTGDH
21860	52228	B	21988	239	2825	
21861	52229	A	21989	7533	11119	
21862	52230	A	21990	1	3718	MEVIPEGYRLSELKKCSKWIVV MVARLYEYTKNQIIHLKWVN HMLGCLLDRNDPLRDVDEAAV PVLICCSADDPVCGPPDHTLTTE LFHSNPYFFLLLSRHGGHCGFL RQEPLPAWSHEVILESFALTEF FRTEERIKGLSRHRASFLGGRRR GGALQRREVSSSSNLEEIFNWK RSYTRLMAAAAAGAAAAPGSRE PQDRPECGAGHPGPRYYRHPER WLLRPEAFLGPLRTRAPSAEDS QRRERPAARSGPEM
21863	52231	A	21991	1	697	
21864	52232	A	21992	1	978	

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21865	52233	A	21993	145	1929	VSGVIEIADGSRRRKAAALTES DYRVLVGELDDEQMAALSRLG NDYRPTSAYERGQRYASRLQN EFAGNISALADAECDNLKTCHT SHGSVMAETA VINHKKRKNSP RIVQSNDLTEAAYSLSRDQKRM LYLFVDQIRKSDGTLQEHDGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPEEDAG DEKGYESFPWFIK/RPSRGLYSV HINPYLIPFFIGLQNRFTQFRLS ETKEITNPYAMRLYESLCQYRK PDGSGIVSLKIDWIIERYQLPQS YQRMPPDFRRRFLQGFCRFRNH HQTGFSPAGANQRGPLAATLSG PGGEGQSAVARLTGEKKNHPG AQYANRLSPRVGRFINAAGTTG FPTWKAGSERNAINDDVTYAIK PTCWPGLDIIPSCALHRIETEL MGKFDEGKLPTDPHMLRLAIE TVAHDYDVIVIDSAPNLGIGTIN VVCAADV LIVPTPAELFDY TSA LQFFDMLRDLLKNVDLKGNSN GSQSPWMEEQIRDAWGSMLVK NVVRETDEVGKGQIRMRTVFE QAIDQRSSTGAWRNALSIWEPE CNEISIGVSLDQDGGNSVLRK



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21866	52234	A	21994	1184	2229	RSSVATVALLHAVINHK/KRKN SPRIVQSNLDTEAAYSLSRDQK RMLYLFVDQIRKSDGTLQEHD GICEIHVAKYAEIFGLTSAEASK DIRQALKSFAGKEVVFYRPEED AGDEKGYESFPWFIKRAHSPSR GLYSVHINPYLIPFFIGLQNRFT QFRLSETKEITNPYAMRLYESL CQYRKPDGSGIVSLKIDWIERY QLPQSYQRMPDFRRRFLQVCV NEINSRTPMRLSYIEKKKGRQT THIFFDMLRDLLKNVDLKGFEF DVRILLTKYSNSNGSQSPWMEE QIRDAWGSMVLKNVVRETDEV GKDTSLSTPAAPMVDLSIARVG VMARGNAITLPVCGRDVKFTL EVLRGDSVEKTSRVWSGAVSQ GGESFIYMPLTGAAFLSEMP PERRNLKKQCGYSGFAACGYQ SQERKNSPRIVQSNLDTEAAYS LSRDQKRMLYLFVDQIRKSDGT LQEHGICEIHVAKYAEIFGLTS AEASKDIRQALKSFAGKEVVFY RPEEDAGDEKGYESFPWFIKRA HSPSRGLYSVHINPYLIPFFIGLQ NRFTQFRLSETKEITNPYAMRL YESLCQYRKPDGSGIVSLKIDWI IERYQLPQSYQRMPDFRRRFLQ DHNSSPEREQNWMENEFDELT EVGFRRWVITNSSELKEHVLTQ CKEAKNLDKRLQELLTRISNLE NIDDLMEKNTAQELHETYTSI
21867	52235	A	21995	82	325	
21868	52236	B	21996	220	1173	
21869	52237	A	21997	1	1599	
21870	52238	A	21998	188	421	
21871	52239	A	21999	1	596	MGMTDMGKSKKKSQGPSFPP GGAPPAIGAPAGRERPPGTGD PFNQRPCDNLKTCHTSHGSVM AETA VINHKKRKNSPRIVQSN LTEAAYSLSRDQKRMLYLFVD QIRKSDGTLQEHDGICEIHVAK YAEIFGLTSAEASKDIRQALKSF AGKEVVFYRPGEDAGHEKGYE SFPW/FIKRSPE*RRGKFPTQM GQD
21872	52240	A	22000	1	1527	
21873	52241	A	22001	2	870	

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21874	52242	A	22002	1	4304	MAETAVINHKKRKNSPRIVQSN DLTEAAYSLSRDQKRMLYLFV DQIRKSDGTLQEHDGICEIHVA KYAEIFGLTSAEASKDIRQALKS FAGKEVVFYRPEEDAGDEKGY ESFPWFIKRAHSPSRGLYSNRFT QFRLSETKEITNPYAMRLYESL CQYRKPDGSGIVSLKIDWIIERY QLPQSYQRMPDFRRRFLQCINA GHEMTKAIAIAQFNDDSPARK ITRRWRIGEADLVGVSSQAIR. DAEKAGRLPHPD
21875	52243	A	22003	740	1159	SLPNLDNSAICSSSSSPTTR*SL SVSAAALRRRLPSAISMTPTDL RPNAGVC*PVSRKEGMRSSSAS SVSSWSRSLPDHTREVFTLSP RSTSRVNFSTRPHTGKVMALPR AITPTRAINESTIETAGEDNEVSS TG
21876	52244	A	22004	664	1844	SGNLKACHPSHGSVMAETA\VI NHKKRKNSPRIEQ*KDGYQQA YLSLRDQKRMLYLFVDQIRKSD GTLQEHD\GI\CQIHGAQYR*QIS D*PFAEASKDIRQALKSFAGKE VVFYRPEEDAGDEKGYESFPW FIKRAHSPSRGLFSGHIPP\YLIPF FIGVKNRLTQ\RLFETKEIPHP AL\RYYESLGQDRK\PDGSSIGS LK\IDWIIERYQLPQSYQRMPDF RRRFLQHFLAHAGCPKGTQNF FRMKFIIFSIIKKVLPVDTILAH D PVIHTCHLRESFGSVSPSPKSN RLPCPEVILFHYGESWNLLRAD QRLIFAKSWPRASRYQQGHQD LFILRSDLPSQVFIRDKLMERRN RRTGRTEKARIWGS DGQNGQE PGYVEAGCPPLLLTV
21877	52245	A	22005	3	272	
21878	52246	A	22006	1	528	
21879	52247	A	22007	461	831	LLNLATWRYLGTLTRGTAS\VA VAGILAALRITNNKLSNHVVFV QGAGEAAMGIAHLLVMALRRK K\GTERTTATRKIWMVDSK\GLI CQGE GSHLN/HHEKEMFAQDH PEVNSLEEVRVLVKPTAM

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21880	52248	A	22008	3	1894	EGEDRGLPRTMGAAALGTGTRL APWPGRACGALPRWPTAPAQ GCHSKPGPARPVPLKKRGYDV TRNPHLNKGMAFTLEERLQLGI HGLIPPCFLSQDVQLLRIMRY ERQQSDLDKYIILMTLQDRNEK LFYRVLTSDVEKFMPIVYTPTV GLACQHYGLTFRPRGLFITIHD KGLATMLNSWPEDNIKAVVV TDGERJLGLGDLGCGYGMGIPVG KLALYTACGGVNPQQCLPVLL DVGTNNEELLRDPLAIGLKHQ RVHGKAYDDLDEFMQAVTD KFGINCLIQFEDFANANAFRL NKYRNKYCMFNDDIQGTASVA VAGILAALRITNNKLSNHVVFV QGAGEAAMG\IAHLLVMALEK EGVPKAEATRKIWMVDFKGL IVKGRSHLNHEKEMFAQD\HPE SNSLDEVVRLVKPTAIGVAAIA EAFTEQILRNMAFRRAPIIFA LSNPPRKAECTA\EKCYRVTEG PRGFFASGKSFLRSVDL/ESMGK TFIPGGRGNNA*RVPRGWQLG VHSPGGDPGHI\DEIFLPDSRA KLPQEVSEQHL\SQGRLY\PLS TIRDVSLRIAIVLDYAYKHNL V\SYYPEPKDKEAFCKIPGSYTP DYDSFYT/VDSYIWAQ GKAMN
21881	52249	A	22009	322	567	
21882	52250	C	22010	338	603	
21883	52251	A	22011	127	417	
21884	52252	A	22012	253	424	
21885	52253	A	22013	124	1235	YLCLLPKGQGDRLSRTSQWP QMSQSQACGGSEQIPGIDIQLN RKYHTTRKLSTTKRFPTACWR KKVGAF TKIIEAMGFTGPLKYS KWEDLRLRALRIVY*LCGRKLD FEGFFSK\CS\MPDTFNSWFLINP YFHVWMCLVRMKQEGRSKY MCRIIVHFMWEDVQQRGRVM GVNPIYLKKNMILMTNHFYAA ILGYDEGILSDDHGLAAALWK NLL\NRKCEDPRHLELLVEYVR KQIQYLD\SMNGEDLLLTGEVS WRPLVEKNPQSILKPHSPTYND RGTFDGLGPPHGPPAGFRGTSR EEKCLVGPRT PARKWPELDLLN KHL SKYLAPICVEFPLSVPQESD LLGYRAWENPLALPGCPSSLRG

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21886	52254	A	22014	282	435	GGGASPAACSGSPDSS\HSATA GTGCRRPARPPPAPPTPTPWRS RQQGSRAS
21887	52255	A	22015	3	399	IVALPFGHHHSQTSPNLLQTA ACLLHFLLLSGVETGRPGPWQ PRIRARGPPAPPGPAPPAKPRRR /GCRGPAREACWYGCRPARPP PAPPTPTHGAAGSREAERASEL/ C*GARPLRLGSAGTIMVSACVP
21888	52256	A	22016	279	872	KIPIISLSLKLQGASSKIPTQNP HLSPGTKRDSSFQWLSAFIIT GQCCSYIVRWGLWKPRLLV KKYAALSAEMLLVKVEEPSA ACSGSPDSSSFCNCW*PAAAGR L/ASAAQRPTPNNAHKRSRQQG SRASERAS/CKGRGRYGLGALG GRGGRALGGSRWPPPLPGETLF SGCKHRRRRRGSDAAPGEEAG
21889	52257	A	22017	106	398	NAAPFSRHAAFQGFSWAVCIFR LPAERALRLFPASCLVLPGGPS GVAP\HGWPLPTTAPPLLQGVW RVEVGEHEMAEIFSSAKKEAAG ALQRPCIPVW

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21890	52258	A	22018	1	1806	MRGNTAGGPGDEKPDSTHPPW EGTLQEAQEMKKVVRFMWTS GGDPQHWRGSGLYGQLVAQ MLHIDVAQVYMDSWWPRCST LAWLRFIWTAGGPDAPHWLRS GLGGQLVAWMLHVGVAQVYV DSWWPSCSASMWLSFMEHKQ CLTLGYEVALFLQHFLSRAFVL VWVPRKEKAQVLRQGLSLTFR ENPGVCVMSSYRPWLITAAAD MQPSKPGGTGSYCSYWSPTDN TPRLAAACTWNLGSSHGSAPG VRTFIEAGFSPPFLAPKALATL SDSDSRWGNPNVYAQPQP/PEP AWGNPNV*GQPQPRNRPG\PEP CVCSTPTAEPWPGNPVSTPTA EPAWGNPNVYA/PTPTAEPWP PNPV*GQPQP/REPAWGNPNVY GQPQPRNRPGS\PPQGNLYCSA ALGATDPSQSWHQCSQNLLPA DKGAKREAPW/PRPPSGEVDHQ VWHLHGWPLPTTAPLLQGVW RVEQTPASHHRQPRPRQSSPST KAPPVITVNQGPASHHRQPRPR QSSPSTKAPPVITVNQGPASHH RQPRPRQSSPST/TGPASHHRQP RPRQSSPSTKAPPVITVNQGPAS HHRQPRPRQSSPSTKAPPVITVN QGPASHHRQPRPRQSSPSTKAP PVITVNQGPASHHRQPRPRQSSP STKAPPVITVNQGPASHHRQPR PRQSSTLTAPPVITVNQSPASH

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21891	52259	A	22019	27	1367	RILAGPARAEAGSASDRSTGHL FPRGVGMDLCHPQPAELSSGET DELPRI*WHRKQLLEDIQKLKD EIADVFAQIDCFESAGDSRMAH KENELCIGRKKFNMDPRQGRW LWRARATGCGGCMGAPAWFL SGEGLNKTAIGTYLGER*ERVE P*RGRK*RCAGVYRCVDVQAL R*VVLGQGPQPQGWHSPPSGWG CRDPYCLCNPGVFQSTGARRG VGPRAPGFLQHCQA*ISQTRPPF ERFVSMNRGINNGSDLPEDQLR VREAQPTQPGPGESRRDLSDG WPFNPDREGWLLKLGERPTD TRRRTHTHARAGTHRCMHTTV SRVLLGLPLPPPLPAQPTSQ/PPT SRC/LRLQDPE/CWSHWEIS*TE RGESRVVEGKHESYRISATSAE ERDQWIESIR*GVPRSGDGFPS SRRPCFFWVLRDSWRWHWGL VTLRVPSAAPGDP
21892	52260	A	22020	140	356	
21893	52261	A	22021	2	1147	APARGPAVASGPPSPGPAEPVQ NTETAAMTTHVTLEDALSNVD LLEELPLPDQQPCIEPPSSIMYQ ANFDTNFEDRNAFVTGIARYIE QATVHSSMNEMLEEGHEYAV MLYTWRSRSCRAIPQVKCNEQP NRVEIYEKTVLEVLEPEVTKLMK FMYFQRKAIERFCSEVKRLCHA ERRKDFVSEAYLLTLGKFINMF AVLDELKNMKCSVKNDHSAY KRAAQFLRKMAPQSIQESQNL SMFLANHNRTQCLHQQLEVIP GYEELLADIVNICVDYYENKM YLTPSEKHMMLLKVMGFGLYLM DGNVSNYKLDKAKKRINLSKID KFFK/HAAGGAPFRRHADRAGQ IH*DQCSL*REQVQVDVHPEQH QPPVQYL RADGSDPG

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21894	52262	A	22022	47	1581	ALVLMYLASSICMSPKRGTTCS CLERGSRCPTSEPPPPPEPPGRS SRCRPGLGPGYGGGGEKMADDP SAADRNVETWKIKKLIKSLCAA RGNGTSMISLIIPKQDQISRVAK MLADEFGTASNIKSRYNRLSVL GAITSVQQRLLKLYNKVPPNGLV VYCGTIVTEEGKEKKVNIDFEP FKPINTSLYLCDNKFHTEALTA LLSDDRQVWDFIVIGG/SVGALF GHTPKGNTRGGPWHKFTVGIFP K\KHG*EGGQ\SALRFARLRME KRHNYVRKVAETAQVLFISGD KVNAGLVLAGSADFKTELSQ SDMFDQRLQSKVLKLVDISYG GENGFNQAIELSTEVLNVKFIQ EKKLIGRYFDEISQ/DLTGKYCF GVEDTLKALEMGAVERNIVYE NL\DIMRYVLHCQGT\KEEKILY LTPEQEK\DKSPFH\DKETGQEL ELIESMPLLEWFANNYKKFGA\ TLEMFTDKSQKSPV**KDLGG IGG\ILRYQSRFPGEWNTKKET MNFLTLMTR
21895	52263	A	22023	1	296	VEDERVCAQPAWERQAGQERP ARKVQGKAPEAEGKHGCLLDI LVCTYLAEKGLSGSCGLTEALV AFGEGSSLGRKNCRDPWGLR QEPHWSDP/WSGPPERCKGKPQ RRRGSTDAFWTSWSART*PRRG SLAAVG*QRHWWPLGRAAV*E ERTAETPGAPSGRSLTGQTLGS LHV
21896	52264	A	22024	5	309	LPDADLFCPACGAAAGRARS GMRPVFAVSVARTSPR/PPPAE PQFPRLPCGSIGSPFFRDITIQK FPDMLSSFFRDITIQKFPDML VFNCCLLNQSR
21897	52265	A	22025	1	258	RGRSRIARSASGPRPALVRPPAR PPAP*TPRSWSCWSSC*PRSASA TGSPSA*ATDAHADSSKAMLPE PTSSISKFSTLQTVPFRL
21898	52266	A	22026	119	692	PSSHVRTATYSSLRQSAVSTRT STTTTLAFMARAGGRAGGRAR VGGRTPSGQCGCPACGAAAGR ARSAGMRPVFAVSVARTSPR/ PPPAEPQFPRRPQRIGAPAPSGG GASLPAPRALASSIPAQLMKPG RAKGSAGNLHPGEGRPARRS DPAGAARSLACP*IWPQKTPSP LASSSSFFLSETPECAH

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21899	52267	A	22027	2	246	
21900	52268	A	22028	1	927	
21901	52269	A	22029	251	1077	VTMGKVLAVSSLPAGPPPPVP ALVGLPPPPP*HPGFRLPPLGGG LGARTSVGRGLERTPGAATASA AGGAEDGACRCLPNPCTFECH RKCKEL*MEGVKFTENKAL/SS KMAIQTQQSKFVKWQVDGEYR GSDFTVDVTLWNPVLMGSGI LVAHYLKSITPCLALGSELVYH RRPGEETVMSVAGKYTLNNW LATVDVEFEASTRMQDTNVSF GYQLDLPKANLLFKGSVDSNW IVGATLEKKLPPLPLTLALGAFL NHRKNKLRSGFGLTIS
21902	52270	A	22030	1	1171	GGSGFGCAWRTGWERSPGRE QAPPPATMGNVLAASSPPAGPP PPPAPALVGLPPPPSPPGFTLPP LGSLGAGTSTSRSSERTPGAA TASASGAAEDGACGCLPNPGTF EECHRKCKELFPIQMEGVKLT NKGLSNHFQVNHTVALSTIGES NYHFGVTYVGTKQLSPTEAFPV LVGDMDNSGSLNAQVIHQGLP GLRSKMAIQTQQSKFVNWQVD GEYRGSDFTAAVTLGNPDVLV GSGILVAHYLQSITPCLALGGEL VYHRRPGEETVMSLAGKYTL NNWLATVTLGQAGMHATYYH KASDQLQVGVEFEASTRMQDT SVSFGYQLDLPKANLLFKGSVD SNWIVGATLEKKLPPLPLTLAL GAFLNHRKNKFQCGFGLTIG
21903	52271	A	22031	14	434	CYCQGILSPPCPPFLGSAQTS AICSWVRGVP AESSTSSFPKAP* VALESRGEAPTLHLPVTSRFLQ CVSSEQECVPWKP/HSSPRPRFL DISPSPTCVRL*APGPVPFDPHQ KTWRSPLGTRAQGVGPRDRDS CRIVPG



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21904	52272	A	22032	989	1859	VYGDSRWSLALSPRLECSGAIS AH*NLCLPGSSDSPASRITGISG ARHHAQLI/L/YVFLVEMRFHH VGQAGLKLLTSGNP/HHLGLPK CWDYSRKPPPRPPRI\FSFFFL RWSLALVAQAGMQWDDLSSL QPLPPGFK*FSCLSLLRSWDYG CPPPRLANFVCVCVCLV/VDG GFTMLARLGLELLTSGDLPPFG LPKCLGFTGMSHCARPIFF\FE MESCFATQAGVQWCDLSSLQP LPPRFK*FSCLSLLSSWDYRHM PPCLANF/CFGIFSRDRVSSCW GRSQTPDLK
21905	52273	A	22033	157	376	SHQDFMRTAANLLQTGWCTGS NTGAGARWGLCRASLSRCRCA APSAPCSGSRCS*RSWKGTHPS LPPRCRGRS
21906	52274	A	22034	298	399	
21907	52275	A	22035	1	185	
21908	52276	A	22036	311	516	WKAERRTRHLLQTGWCTGSNT GAGARWGLCRASLSRCRCAAP SAPRSGSRCS*RLWKGTHPSLPP RCR
21909	52277	A	22037	1	1487	MMGHSSAIPLTATPGELKGQSP TKMPDPELGCQGAQSQCGRN ARHQKARSMPLQDQHLALAIL LELAVQRGTLSQLSAILLLLQ LWDSRAQETDNERSAQGTSTL LLSLLQTFQSIICSKDTPPSEGN MHLLSGPLSPSESFLRESFFTQV NCRNNEEVTCLICKADLENHKN DGGFWIVIDEKVYDIKDFQTQS LTGNSILAQFAGENPVVALEAA FEFEVTRESMHAFVGVQYLEVR LYALSDAEDGRGHPLMASVIHL LWRLQTSQIHYSYNEEKDEDH CSSQWAHLPANRDCSHRWALG DHSQAFLQAIADNNIQDHNVKT HQQGRSYKEVCTPVIERLRFL SNELRPAVGNDLSIIEFKLLSSL PRWRIAQKIIRERRKKRIPKKP ESTADEEKIGNEESDLEEACILP HSPINVDKRPIAIKSPKTITSENP LG/REPGEHPASPLPPDDAQAHA HPAAQRKQPRPPAQFRHAGPHS DGTAPDWPQL

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21910	52278	A	22038	263	375	AGPRRMRRISAWAVSTPLTDSP SPGHQPA/GEVAGAGSF**HPP/P PCPSRYCPQMTPPPPPPAPPPAL PPPPPPAPASPLPPAPSPPPHAP PQALPPPPALPPPPASPLLPPA LSPPLPAPP/PPSAPPASPPAPPP PPAPPPSPPAPPPSAPSSAPLPP APASPP\SPAPPPAPPPAPHPPSP PAPPCPPLPRPRGPSVPQEKVHQ V*IPVVPAGEGGPAPGRJWPQG WRRAGKPPTWEEALAAFPPWT ALPPASAVPAQPPRAH*VAPAL *WALHRRSDSDSDSSNLSRIPG TGGQRRQPR*DS*APACSEVAG AGSF
21911	52279	A	22039	1	2001	
21912	52280	A	22040	1846	7725	PEPFCHRAAHWSNQYCPFQFQ DTDSPRQTLTVLIKDNGEPSLST TATLTVSVTEDSPEARAEFPGS APREQKKNLTFYLLSLILASV GFVVTAFGVIFKVKWKQSRD LYRAPVSSLYRTPGPSLHADAV RGGLMSPHLYHQVYLTTDSTR SDPLLKPGAASPLASRQNTLR SCDPVFYRQVLGAESAPPGQIR YPVPEESQEGTFVGNVAQDFLL DTDSL SARRLQVAGEVNQRHF RVDLDSGALLKNP
21913	52281	A	22041	108	340	PQPSQVMSFHGDSGSCRRWAT AGT*ATSPPCSSSIFLRRMHSGH WCSCWPVRGTPCRDFTAQMAG PSRGSKTNRSMW
21914	52282	A	22042	275	752	EKTHKTCRCGRGCGKRGTL*H CWWEENLLQPLWKMVWKWL KELKVELLCDLAVPL/LGINPEE KKSLEYKDTCT/R/LFMAAQLAI AKKWNQPKCPSINKWLQKLW YIYMMEYYSAIKRNLTAFAAT WMRLETIILSQGDPLESTCSRSQ ANRQEITSVPA
21915	52283	A	22043	25	202	DAEAWAMELADVGA*ASSQG APQPEEPAASLGVNEKGGAGG RSGRRPLGRDRPRPTRL

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21916	52284	A	22044	1	2290	MEKLGVEPEEEGGGDDEEDAE AWAMELADVGAASSQGAPQ PEEPAASLGVNEKGVHDQVLPT PNASSRVIVHVDLDCFYAQVE MISNPCLKDKPLGVQKYLTV TCNYEARLKGVKMLMNVDA KEKCPQLVLVNGEDLTRYREM SYKVTLEEFSPVVERLGFDE NFVDLTEMVEKRLQQLQSDLE SAVTYSGHVYNNQSLNLLDVLH IRLLVGSQIAAEMREAMYNQL GLTGCAGVASNKLAKLVSGV FKPNQQTIVLLPESCQHLIHLN HIKEIPGIGYKTAKCLEALGINS VRDLQTFSPKILEKELGISVAQR IQKLSFGEDNSPVLSGPPQSFSE EDSFKKCSSEVEAKNKIEELLAS LLNRVCQDGRKPHTVRLIIRRY SSEKHYGRESRQCHIPSHVIQKL GTGNYDVMPPMVDILMKLFRN MVNVKMPFRLTLLSMCFCSLK AVNTATTRLIDYYLMPITISITSR SGKHSFKMKDTHMEDFPKDKE TNRDFLPSGRIESTRTRESPLDT TNFSKEKDINEFPLCSLPEGVDQ EVFKQLPVDIQEILSGKSREKF QKGGSVSCPLHASRGVLSFFSK KQMQDIPINPRDHLSSSKQVSS VSPCEPGTSGFNSSSSSYMSSQK DYSYYLDNRLKDERISQGPKEP QGFHFTNSNPAVSAFHSFPNL QSEQLFSRNHTTDSHKQTVAT
21917	52285	A	22045	2	141	
21918	52286	C	22046	278	489	
21919	52287	A	22047	130	426	

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21920	52288	A	22048	357	1579	QRRPRPFPSQGISMTECFLPPTSS PSEHRRVEHGSGLTRTPSSEEIS PTKFPGLYRTGEPSPPHDILHEP S*SNGLMDEKDHGKKKGNFKK KEKRTGYAAAFQEDSSGDEAE KLMPRFEEAYGRTTETEKVQEF QRLLKELPEGNYLLISLFVVMH DHVITKELEAKMNIQNIYIVVSP TVQISNLVLYVFFTHVQELFGN VVLKQVTKTRRWSNVATMPTL PETQAGFKKEIRIQELLNCLHQ DLQGGIKDLSEERLWEEKEL TKQEELLGMEQFLRRQIASEKE EIECLRAETAIEIQSHQQQLSET EEYSSESESEDEEELQIILEDLQR QNEELEIKNNHLNQAIHEESEA VIEPRMQPWLLQLQPDRAKQQ AQEDEEPEWRGGAMQTPKNGI
21921	52289	A	22049	182	2212	VTEKTSSLPSQGISMTECFLPPT SSPSEHRRVEHG/SAGLTPGPPA SEEIQLPKFPGLYRTGEPHPP P*HPSHEPSLM*CPDDEKDHGK KKGKFKKKEKRTGYAAAFQED SSGDEAESPSKMKRISKGIHVFK KPSFSKKREKDFKIKEKPKEEK HKEEKHKEEKHKEKSKDLTA ADVVKQWKEKKKKKKPIQEPE VPQIDVPLKPIFGIPLADAVR TMMYDGIRLPAVFRECIDYVEK YGMKCEGIYRVSGIKSKVDELK AAYDREESTNLEDYEPNTVASL LKQYLRDLPENLLTKELMPRFE EACGRTTETEKVQEFQRLKEL PECNYLLISWLIVHMDHVIAKE LETKMNIQNISIVLSPTVQISNR VLYVFFTHVQELFGNVVLKQV MKPLRWSNMATMPTLPETQAG IKEEIRROEFLLNCLHRDLQGGI KDLSKEERLWEVQRILTALKRK LREAKRQECETKIAQEIASLSKE DVSKEEMNENEEVINILLAQEN EILTEQEELLAMEQFLRRQIASE KEEIERLRAEIAEIQSRQQHGRS ETEEYSSESESEDEEELQIILE DLQRQNEELEIKNNHLNQAIHE EREAIHEL RVQLRLLQMQRACA EQQAQEDEEPEWRGGAVQPPR DGVLEPKAAKEQPKAGKEPAK
21922	52290	B	22050	34	322	

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21923	52291	A	22051	137	1546	QMLGGRPPPRWLQLAKARALA RRRPPPSLHLTLPTALSLKS/RTP VPKSIPISETPNIPPVSQPPASIG PPLGVPP/PEPSHGDDQPRGP\PL PIFMEQQIMQQIRPPFIRGPP\PM PPTPTAPCPTPCFPASGPRPVAP ETWAPLPAPCTGPCY\PPHPPPE/ PPPP/SPGNPPGLLPPPPGAPLPS LPFPVVSMPNGMPVPQMMN FGLPSLAPLVPPPTLLVPYPVIV PLVP\PIPIPIPI\PSATPSPTGSP ATGRTSFRTPLATPRRRAASQA DTPCPPGTSPSRARPSRTRPPAA RARP*AWRPRPPSMAGARWWT *RGAPA\PPGPPGRGRPARLPRR AAGPAGRRHRPDRGPPSPAAQR DPPRAA/PRTSRRSASRAPRSAG PAAAAGTATAARPPPATQARA PRRAPRRPRPATSS*TARAAPP/ SGAKSAEPPPEQPPPPPPAPPK KLLSPEEPAVMRARVGQGE
21924	52292	A	22052	762	2049	RSSFSMGADLLACST/SGLGNM PY\DLLRGMEPTLGCSFEDLAL A*PGGITQE\KINEMRVAPEQQ MI\ADIHFMIAGQDLWDIDAQ GATLLHIAGANGYLRAAELLDD HGVRVDVKDWDGWEPLHAAA FWGQM\QMAELLVSHGAN\LNA RTSMDEMPIDLCEEEEFKVL ELK\HKH\DVIMKSQLRHKSSLS RRTSHRQAS/SVGKVVRRTQPV GTGPNL\YRKEYE/GEEAILWQR SA\AEDQRTSTYNGDIRE\TRTD QENKDPNPRLEK\PVLLSEFPTK IPRGELDMPVENGLRAPVSA YQ YALANGDVWK\VHEVPDYSMA YGNPGVADATPPWSSYKEQSP QTLLELKRQRAAAKLLSHPFSL THLGSSMARTGESSEGGAPLI GGRTSPYSSNGTSVYYTVTSGD PPLLKFKAPIEEMEEKVHGCCR
21925	52293	A	22053	2	306	SKEAFAIGLGGGSASGKTTVAR MIIEALDVPWVVLSSMDSFYK/ NAFD\DLIISTLKKLKQKSVK APIYDFTTSLRKMDWKTLYGA NVIIFEGIMAFADKTL
21926	52294	A	22054	2	379	

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21927	52295	A	22055	352	1227	GDVSPQLSPRQKSGPLCTSCCA WPVCSPHSDAQPSGEGGLWE KTPFLSVPHRFVPRALASAHQ CHPLPRTL SVLKSTPQVRGMHT IIRDKETS RDEFIFYSKRLMRLLI EHALSFLPFQDCVVQTPQGQD\ *RITGVSILRAGETMEPALRAVC KDVRIGTILIQTNQLTGEPELHY LRLPKDISDDHVILMDCTVSTG AAAMMAVRVLLDHDVPEDKIF LLSLLMAEMGVH\SVAYAFPR VKKSSPRRWDKAGQLTFFRIIP GIGNFGDRYFGTDAVPDGSDEE EVAYTG
21928	52296	A	22056	72	2746	FLVETGLHHVGQAGLKLLTSN DPPASASQSTGITGMSHHAQPR QSSYVPPMSLPASAMPVEGVG GDALWAGHASGYLGGGQLWA TSEYIPLCSSNAESLDRLLPPVG TGRSPRKRTTRQCKSEPPLRTS KRTIYTAGRPPWYNEHGTQSKE AFAIVPVEQEKEAGQPQAAAA GWAPLGPI CAGSLPVPHRGSP PPAGLGGSASGKTTVARMIE ALDVPWGGSSLSMDSFYKVLT EQQQEQAAHNNCNFDHPDAFD FDLIISTLKKLKHGKSVKVPID FTTHSRKKDWKTLYGANVIFE GIMAFADKTLLEGPGPAPCTGP EDSIIRHIAAPSLHKASSRANYC VLSMGTDPKLATSPIQCVGAS YPKQRCPEVALARPTDQAAS VQGLVPVSPCPLLASGHS LARC LHQLLDMKIFVDTSDIRLVRR LRRDISERGRDIEGVIKQYNKFV KPSFDQYIQPTMRLADIVVPRG SGNTVGHRP*LLQHVSQLEEV SGVPRPHGLAPSPSTHFS AATTP SWPVHLIPLRSLSPASSSSQPAQ LCQQELGNCSKKLGLGRGRIPL SLPKGRHAGGAALASAHQCHP LPRTL SVLKSTPQVRGMHTIIR DKETS RDEFIFYSKRLMRL LIEH ALSFLPFQDCVVQTPQGQDYA GKCYAGKQITGV SILRAGETME PALRAVC KDVRIGTILIQTNQLT
21929	52297	A	22057	61	341	
21930	52298	A	22058	1	1086	
21931	52299	A	22059	1	498	
21932	52300	A	22060	104	3395	
21933	52301	A	22061	1	1653	

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21934	52302	A	22062	1	1717	
21935	52303	A	22063	172	13375	EDLFKCIMAHAASQLKKNRDL EINAEPEPEKKRKHRSRDRK KKS DANASYLRAARAGHLEKA LDYIKNGVDINICNQNGLNALH LASKEGHVEVVSELLQREANV DAATKKGNTALHIASLAGQAE VVKVLVTNGANVNAQSQNGFT PLYMAAQENHLEVVKFLLDNG ASQSLATEDGFTPLAVALQQGH DQVVSLLLENDTKGKVRPLPAL HIAARKDDTKAAALLQNDNN ADVESKSGFTPLHIAAHYGNL
21936	52304	A	22064	1	360	
21937	52305	A	22065	1	2577	
21938	52306	B	22066	323	3154	
21939	52307	A	22067	93	791	IRMSYAEKPDEITKDEWMEKL NNLHVQRADMNRLIMNYLVTE GFKEAAEKFRMESGIEPSVDLE TLDERIKIREIDT*KGQIQEAI RL *FNSLHPEL/LWDTNRYLYFHF ASNSILIPS*FRQ\GKTRGRRWG VAQTQLAD\RGESRECLTE ME RTLALLAFDSPESPFGDLLHT MQRQK VWSEVNQAVLDYENR ESTPKL\AKLLKLLLWAQNELD QKKVKYPKMTDLSKGGD
21940	52308	A	22068	171	426	
21941	52309	A	22069	5	655	LLQPSVQLPNGTANTSLSFAAV SAVSPPPCRTSTATTLPMPSPF FCVFPSPSPSPSEFLSCIASVS RVHSLSSSSSGSSSTASSLNFSAI MGSSSATASWVLSTTSTPPCPS ALPSSPAQES*SLAASSSAWLSE HPSFSSFTLSWASGAFCDEVSL FSGSKLSFLSSKGDGIPFI* TSA CPSSLD FSPCFSSSTSKSSSYSEI GKSPQPI

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21942	52310	A	22070	87	1180	NQASLEVLPSVDSPDSIPSLPP/ SDNPNRNFSAPVSLPSPLPVA ASWPSDPSSCSCPSPEVFRSRAP GVPTPASVVYVTVISSAAGTSSP LRANSSTTTFPAAAVFPTNSSC WCQVSSSATSEKEEALFAIVFSS AVSEPANTSLSSAAVSAVSPPPC RTSTATTLPMPSPFFCVFPSPS MSPSPSEFLSCIASVSRVHSLSSS SSGSSSTASSLNFSAIMGSSSAT ASWVLSTTSTPPCPSALPSSPAQ ES*SLAASSSAWPVAGISPSGAC TFPAGSASGAAPSPSWRCPS FRALFSLDSSSLSCSVSLASL SLSPPPSFLRAVMFPATFKSRRC FKYGNHCLFSDLLWLEVCAL
21943	52311	A	22071	841	1052	IGEVLLDNVLKSVF*LGSLVPIT SLKLLP/SGSKRDPKMSHSH AG*VTTGAFPRCGRWRLQPAA PPPPS
21944	52312	A	22072	817	866	HANPVSPPTSWPKE*SWP*CSG **RTFQSVSFAGGRRRGSWLKP PPATAWKSSSCHLPSGVRMAHF CRIPFGPRGRDFADFGTTIKQDF RLLGQTSVDRLLQLSQGQAVK GNQLLPVSLVKRKTTLAPNTQT ASPRALADSLMQLARQVSRLES GQ
21945	52313	A	22073	2	3238	TTFPAAAVFPTNSSCWCQVSSS ATSEKEEALFAIVFSSAVSEPAN TSLSSAAVSAVSPPPCSTATT LPPPMPSFFCVFPSPSMSPSPSEF LSCIASVSRVHSLSSSSSGSSSTA SSLNFSAIMGSSSATASWVLSTT STPPCPSALPSSPAQES*SLAASS SAWPVAGISPSGACTFPAGSAS GAAPSPSWRCPSFRALFSL DSSSLSCSVSLASLSLSPPPSFL RAVMFSSDFSNPGVASNMGT VSF
21946	52314	C	22074	88	4374	
21947	52315	A	22075	73	616	VKESLTQKSKRFQNKLINRRG WERPRSGASWTQRRALGGRCC VDRWLGII/WPHRIPGARLRGFP ALNPTPQTAPSPSPDRPRPP/CP SDPGPRTEAQCSL\PPPP\PSPRH LDPGPEPPTPLTQQGQKGTRAP RPRCPRSQK*ATSGPAVRRREA RGSASLRTRAPSRDSTHAGIQG NVALQP



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21948	52316	A	22076	1	421	GTVMGLPKYFISLSTKFPLSFS LSADELHIASLFLWPRSKPFGVI QRSCASQLNALPEVLKNPGDPD KMLRFAESPRNLPAGVL/GDIW TDGKGSVSLQEYVYHFPLIRPT PGS*ARASFLSCG*EEFRRHGLT FSSTRE
21949	52317	B	22077	211	2041	
21950	52318	A	22078	200	1525	IMASAHLATSAFCTRSSSSGRSG SCKRGSWDSEQALIRAWTTLPS SLHAADGSFAGGRGIPSKRWS WRAGQQSSLCLIMQTSSNCGNS FQLVSEGASWRGLPHCSAELQ DSLNFYHPSGLSLSVRPSSPGN SPKEQPFSQVLRPEPPDPEKLPV PPAPPSKRHCRSLSVVDLSRW QPVWRPAPSKLWTPIKHRGSGG GGGPQVPHQSPPKRVSSLRFLT SSQCLFSMCPSSQTLQPSFLQPG PGPSSSRPCAASPQSGSWESDA ESLSPCPPQRRFSLSPSLGPQAS RFLPSARSSPASSPELPLAT*G/L SATFPESRSQPCDL DARKTG VK RRHEEDPRRLRPSLDFDKMNQ KPYSGGLCLQETAREGSSISPP WFMACSPPLSASCSP TGGSSQ VLSESEKEEEGA VRWGRQALS KRTL CQRDFGDL DLN LIEEN
21951	52319	A	22079	1	117	
21952	52320	A	22080	3	632	
21953	52321	A	22081	1	448	MQSETETVHLFIPALSVGAIGK QGQHIKQLSRFAGASIKIAPAEA PDAKVRMVIITGPPEAQFKAQG RIYGKIKEENFVSPKEEVKLEA HIRVPSFAAGRVIGKGGKTAST *QNLCSGMKGKALKAKPSTYN CVGCGWSPRPRCSLN

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21954	52322	A	22082	233	2096	RREDEGNKTSWIHPSPWVVLIF RFFSLFFFKQPLFTMNKLYIGNL SENAAPS\DLKSIFKDAKIPVSG PFLVKTGYAFVDCP\DESWA\LR AIKAFSGKIELHGKPIEVEHSVP KRQRIRKLQIRNIPPHLQWEVL DSLLVQYGVVESCEQVNTDSET AVVNVTYSSKDQARQALDK/L LDKLNGFQLENFTLKVA YIPDE MATQQNPFLQPRGRRGLGQRG S\SRQGSPGVS\SKQKPCDSPLRL LVPTQFVGAIIGKEGATIRNITK QTQSKIDVHRKENAGAAEKSIT IPSTPEGTSAACKSILEIMHKEA QDIKFTEEIPLKILAHNNFVGRLI GKEGRNLKKIEQD\TDKITISPL QELTLYNPERTITVKG\NVETCA KAEEMK KIRESYENDIASMN LQAHLPGLNLNALGLFPPTSG MPPPTSGPPSAMTPPSPQSEQSE SETVHLFIPALSVRALISKQGQH IKQLSRFAGASSKIAPVEAPDAK VRMVMIAGSPEARFKAQGRIY GKIKEENFVSPKEEVKLEAHIR VPSFAAGRVIGKGGKTVNELQ NLSSAEVVVPRDQTPDENDQV VVKITGHFYACQVAQRKI*EFL TQVRQHQQKALQSGPPQSRR

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21955	52323	A	22083	8	1675	TASCRLAMALHVPKAPGFAQM LKEGAKHFSGLEEA VYRNIQAC KELAQTTRTAYGPKGMNKMVI NHLEKLFVTNDAATILRELEVQ HPAAKMIVMASHMQEQEVGD GTNFVLVFAGALLELA EELLRI GLSVSEVIEGYEIA CRKAHEILP NLVCCSAKNLRDIDEVSSLLRT SIMSKQYGNEVFLAKLIAQAC\ YLFFLIPAI SMLITSEFVK/FLGS GISSSSVLHGMVFKKETEGDVT SVKDAKIAVYSCPFDMITETK GTVLIKTA EELMNFSKGEENLM DAQVKAIADTGANVVVTGGKV ADMALHYANKYNIMLVRLNSK WDLRRLCKTVGATALPRLTPP VLEEMGHCD SVYLSEVGDTQV VVKHEKEDGAISTIVLRGSTD NLMDDIERA VDDGVNTFKVLT RDKRLVPGGGATEIELAKQITS YGETCPGLEQYAIKKFAEAFE IPRALAENSGVKANEVISKLYA VHQEGNKNVGLDIEAEVPAVK DMLEAGILD TYLGKYWAIKLA TNAAVTVLRVDQIIMAKPAGGP KPPSGK* NWLNFYCR
21956	52324	A	22084	175	278	

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21957	52325	A	22085	208	1976	GPSPLKEHFSGLEETAYMNI LTCMELAQTTTRTAYGPNMNM KVINHLEKLLVTNDAATILRE LEVQHPAAKMIVMASHMQEQE V\GDGTNFV\LVFAGSFPVNYL KNL\WRIGLSVSEVIEGYEIA CRKAHEILPNLVC\CSAKNLR DIDEVSLLRTS\IMSKQYGLM KVF\LAOPYLLQACRJYFSW IPAISMLITSEFVK/FLGSG IRSS\*VLAGMVFKKET\EG DVTSVKDAK\IAVYS\CP FDGHG*QET*GEQCLDKRT ALKDLDGIFR*GEQENLHG/ AATSPKAIADTGANVVVTG GKVADMALHYANKYNIMLV RLNSKM/WDLRRLCKT\VG ATALPR\LTPSLSLKEMGH CD\SVYLSEVGDTQ\VVV FKHEKEDGAISTIV\LRG STDN/L*LDDIER\AVDDG VNTFQGSLQRDKRLVP\G GGSNRNLN*PKQITS\YGE T\CPGLEQYA\ILKKFA* GHLKAIPPAHWQKYSGE NSGVKAQWK*SPKLYAVH QEG\NKNV\GLDIEAEP/ SLVKDMLEAGIPRYLTGK YWAIPLATNAAVTVLRVD QHRTL*FFMQIIMAKPAG/ GGPKPPKWGRKTWGD DQNGLKIGFNFYCR
21958	52326	A	22086	1	346	PF*CTPSCLWAF*TARSAQ TWSAPSTRSWCSEWPKS LPSPTWLR*FRKVSSYS WSQSWSSTASTDSSRP PHSLGASCHPGHQRSLMP PSR*RATSTAYASLSS SHRPNTQPSPS
21959	52327	A	22087	3	484	RSSQPRVGLCGKSLQP/ SSEGSCHLQGWCSFPR SVSSIMAE*RT*PRVSS MHGRGPTQNREATKK ASSSETSV/QVTAQEAQAE PGAAGVAG/SPASAPQDS AGACWPAQVL*GGSDR SCRGSHPGNTEPPSVL RTGTAPGA*G/SSPFS PTTQSGSCFPFSS
21960	52328	B	22088	181	359	

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21961	52329	A	22089	290	2014	STCTPLPTASSQSRPHPPPTPTPP APWRSSNGQVPTLT*PGSTLPP G/SGKSPP/VASGGPARAKPHRA VHVSPAPSGGSPGDVAELPAAV AVRA*QAGSGQRLPAPVCVGE MGTLCPGEPADVHQVVCGLSE PRAPHRPGQPQARAHGVPSGQS LCPAQPG*DDS/AKVSSYSWSQ SWSSPTASTDSSRPPHSLGASCH PGHQRSLMPPSR*RATSTAWRA RTASTPRCLGPRPAPWSCASLSS SHRPNTQPSPTS SVRRARLATP SSHGWALAPWTPMPTQPTTW TRWGKTVSGRQMNTWRRPWS TCARYSGSAKRSSGSSHSPWAP PRMRMEKSNSPTASWVRTDSS LRPWGGTRSSMGCEGLKLSTR GTRSCSPSGAMRSPAWSAHS LG CRLPSTDLQDRWRLCVPGMT SSAASVATTSQLGWPA GTC*A LWGGGRWPATPAA\QAQPALP GQLPTRWSRCCWPSSWPLCSAS GPSHARCCSPWAMSSTPLP*HC *PSGGSCTSP EGV SCLQSRLEGF ATQPHPWAERTWEAPPGGNTV ILGLLERGSCSRRG IWRKR NQE RKAGRAPAKE
21962	52330	A	22090	363	487	
21963	52331	A	22091	234	282	
21964	52332	A	22092	742	990	
21965	52333	A	22093	1	206	LFPAFSDSRECKLMKKLLEA\H EEQNVD\SYTEA\KEYDSIFPG WTQWLTTLLRLIKKTIQG\DEK DLR
21966	52334	A	22094	128	1062	KPFEAAMYSNGKEAEAMALLA EAER\K\KNSQSFFSGLFGGSS KIEEACE\IYARAANMFMAKN WSAAGNAFCQAAQLHLQLQSK HDAATCFV\DAAGNAFKKADPQ GGPFNCFDCVAFEIY\TDMGRF TIAAKHHISIC*DLLRQKLVDIE KAIA\HYRALADYYQGEESNSIS ANKCLLKVAGYA\ALLEQYQK\ AIDIYEQGWGPNAHWTSPPPSK Y\SAKDYFF\KAALCHFCMDML QA\KLAF\QKYEELFPVFSDSRE CKLMKK\LLKA\HGEQNVD\SY TE\SVKGITDSISRL\DQWL\TTH CLR\IKKTIRGD
21967	52335	A	22095	1	1038	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
21968	52336	A	22096	20	2482	RVCSSSASTASQAVMADAWEE IRRLAADFQRAQFAEATQRLSE RNCIEIVNRLIAQKQLEVVHTL DGKEYITPAQISKEMRDELHVR GGRVNIVDLQQVINVDLIHIEN RIGDIIKSEKHVQLVLGQLIDEN YLADRVGQEVNDKLQESGQVTI SELCKTYDLPGNFLTQALTQRL AIIIGHIDLDRGVIFTEAFVAR HRARIRGLFSAITRPTAVNSLIS KYGFQEQLLYSVLDELVNSGR L RGTVVGGRQDKAVFVPDIYSR TQSTWVDSFFRQNGYLEFDALS RLGIPDAVSYIKKRYKTTQLLFL KAACVGQGLVDQVEASVEEAI SSGTWVDIAPLLPTSLSVEDAAI LLQQVMRAFASKQASTVVFS DT VVVSEKFINDCTELFRELMHQ KAEKEMKNNPVHLITEEDLKQI STLESVSTSKKDKKDERRRKAT EGSGSMRGGGGGNAREYKIKK VKKKGRKDDSDDESQSSHTG KKKPEISFMFQDEIEDFLRKHIQ DAPEEFISELAEYLIKPLNKTYL EVVRSVFMSSSTSASGTGRKRT IKDLQEVSNLYNNIRLFGKRG WKFFAADDQTQGWLLPKHLL EV QCVLISLNLIFNFLGFGILMDG Q*DDPGRPFTS\ELRKEILSKLS EETKVALTKLHNSLNEKSIEDFI FC\DSAAEACDIMVKRGDKKR ERQILFQHRQALAEQLKVTE DP
21969	52337	A	22097	1	711	VLSLFDGIATGYLVLKELGIKV GKYVASEVCEESIAVGTVKHEG NIKYVNDVRNITKKNIEEWGPF DLVIGGSPCNDLSNVNPARKGL YEGTGRLFFEFYHLLNYSRPKE GDDRPFFWMFENVVAMKVGD KRDISRFLCNPVMIDAIVSAA HRARYFWGNLPGMNRPVIA SK NDKLELQDCLEYNRIA\RIFGFP VHYTDVSNMGRGARQKLLGRS WSVPVIRHLFAPLKDYFAC

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21970	52338	A	22098	406	2885	GRGILVNGACSDQSSDSPPILEA IRTPEIRGGWAVGTGVVSGADI VSGHCRQWSLLSLFQSGTSL AFITWAFRETRTRSESPA VSSHT SSQSTCGQHST*HT*HARGRQG RNHVDESPVEFPATRVGSPDAQ TPARSL*LGDMPHSLTIDLDDT EDTHGTPQSSSTPYARLAQDSQ QGGMESPPQVEADSGDGSSEY QIDGREGLLPV/I*GP*TRGKTS YAMVVSWKATSKRQAMSGMR WVQWFGDGKFSEVSPGKGGKF CRPEAVPACLPLNKLVSRYKA MYHALEVTWDEGMRAKP*EQ G*SKRPTELEDQLKPMLEWAH GGFKPTGIEGLKPNNTQPGGNE SPWQHPLPLLVGPLLGRVRLKT NCYNNKGKDRGDEDQSRGDCW VPGIMGQMGGGRCRSGIDVIPL TPWLGL*ACLVQCQTCRVSPPTT ALDLPPLASSNSPLLPCGRELL LCSNTSCCR*ALGPVGWMWVG PQGSYVPAV*EPWSCYMCLPQ RCHGVLRRRKDWNVRLQAFFT SDTGLEYVSHRLPPLPPQIPGAQ GVGKLWFDGIATGEFGEHLETL LSCHNRVARESEESIAVGTVKH EGNIKYVNDVRNITKKNVRAV CTLRASSLPVFFPSPPHPNPARK GLYGEHPSLWQSLESCHLTG PGAGNK/RGLGWRFQMNPA SFLSTGVQRDISRFLEVRESGD
21971	52339	A	22099	729	896	

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21972	52340	A	22100	1	2672	MAYKQGFLKVMVHFRKAEVT GKNHTSVHEGYTLISPAQVLT ISCKKSILLQEQVSFKDVCVDFT QEEWYLLDPAQKILYRDVILEN YSNLVS VGYCITKP\EVIFKI/ES KGEEPWVLEKGIPQAQCPPQK RKWKV/EMNVVREQPRKMKM TIFGEPIPTTNKTVSVENGDRG SKTFNLGTDVPVSLIKLSL*NM*L \SEMNLKNISGLIITKKNC SRKK PDEFNVCEKLLDIRHEKIPIGE KSYKYDQKRNAINYHQDLSQP SFGQSFEYSKNGQGFHDEAAFF TNKRSQIGETVCKYNECGRTFI ESLKLNISQRPHLEMEPYGCSIC GKSFCMNLRFHQALTKDNP YEYNEYGEIFCDNSAFIIHQGAY TRKILREYKVSDKTWEKSALLK HQIVHMGGSYDYNENGSNFS KKSHLTQLRRAHTGEKTFECGE CGKTFWEKSNLTQHQRTHTGE KPL*CTEC\GKAFCQKPHLTNH QRTHTGEKPYECKQCGKTFCV KSNLTEHQRTHTGEKPYECNA CGKSFCHRSALT VHQRTHTGE KPFICNECGKSFCVKSNLIVHQR THTGEKPYKNECGKTFCEKSA LTKHQRTHTGEKPYECNACGK TFSQRSVLTKYQF\IHTRVKAL* TS*MLEAFIHL/SKLVIQFQKRRS EKAKECQKFVEKTSCLNM*KL SRKIKTFH*KICKLTVKNKGNK
21973	52341	A	22101	1	2817	



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21974	52342	A	22102	474	2766	NQTALYNQAQLLHGSRFANMS AEGYQYRALYDYKKEREEDID LHLGDILTVNKGSLVALGFSDG QEARPEEIGWLNNGYNETTGERG DFPGTYVEYIGRKKISPPTPKPR PPRPLPVAPGSSKTEADVEQQA LTLPDLAEQFAPPDIAPLLIKL VEAIEKKGLECSTLYRTQSSSNL AELRQLLDCTPSVDLEMIDVH VLADAFKRYLLDLPNPVIPAAY YSEMISLAPEVQSSEYIQLLKK LIRSPSIPHQYWLTLQYLLKHFF KLSQTSSKNLLNARVLSEIFSPM LFRFSAASSDNTENLIKVIELIS TEWNERQPAPALPPKPPKPTTV ANNGMNNNMSLQNAEWYWG DISREEVNEKL RDS\ADGTFLV RDASTKMHGDYTLTLRKGGNN KL\KIFHRDGKYGFSDPLTFSSV VELINHYRNESLAQYNPKLDVK LLYPVSKYQQDQVVKEDNIEA VGKKLHEYNTQFQEK\SREYDR LY\EEYTRTSQEIQMKRPAIEAF NETIKIFEAEQCQTQERYSKGNY HLEKFKP*RAMEKEIQRMHNY DKLKSRISEIIDSRRRLE\EDLKK Q\AAEYREIDKRMNSIKPDLIQL RKTRDQYLMWLTQKGV RQKK LNEWL\GNENTEDHYSLV\EDD EDLPHHDEKTWECLGSS/RTRN QSLKNLFARGSRDGTFLVRESS KQGCYACSVVVDGEVKHCVI
21975	52343	A	22103	3	392	
21976	52344	A	22104	168	404	

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21977	52345	A	22105	49	1760	YQSPA WQSHWHQKLQVRKEN MAKRVAIVGAGVSGLASIKCCL EEGLEPTCFERSDDLGGWLWRF EHVEEGRASLYKSVVSNSCKE MSCYSDFPFEDYPNYVPNSQF LEYLKMYANHFDLLKHIQFKT KVCSVTKCSDSAVSGQWEVVT MHEEKQESAIFDAVMVCTGFL TNPYLPLDSFPGINAFKGQYFHS RQYKHPDIFKDKRVLVIGMGNS GTDIAVEASHLAEKVFLSTTGG GWVISRIFDSGYPWDMVFMTR FQNMLRNSLPTPIVTWLMERKI NNWLNHANYGLIPEDRTQLKE FVLNDELPGRIITGKVFIRPSIKE VKENSVIFNNTSKEEPIDIIVFAT GYTFAFPFLDES VVKVEDGQA\ SLYKYIFPAHLQKPTLAIIGLH/ IKPLGLP*LPTGETQVRWAVSG S*KVLTRLPPPSVMIEEINARKE NKPSWFGLCYCKALQSDYITYI DELLTYINTKPNL/FSLWLLTDP TSGLWTVFFGPA\SPYQFRLTG P\GKMKGGAQEIALHGPQWDP NISRVHSKVRSCYKEFSIFPFGK FFLKVFSFPGFGLWLFFLIFPYK
21978	52346	A	22106	262	969	EWSSVRRSLVEKRALRRPHQPC LCFRMKTILASNQTVDIPEINVDI TLKGRTGIREGPPEGTLR\RDFN\ HIN\VELSLLWKEKKRGSRVDK\ WWGNQKRNPTRSD*FVSHV QNMIKGWLHWGFRLLQG*GPV YAHFPHQPLLSRKNGVSWLKIR KFLWGEKY\RRVSG*RPGCCLL VSVSQGPRKDEINPLKG\NDIEL VSK/SSAGF*FQQATTS*KTRNI RKFLDGFCLLEKGLFRQA
21979	52347	B	22107	211	457	
21980	52348	A	22108	1	159	KEAENQCLDISSPGMSGHRQGH DSLEHDELREIFNDLSSSSEDED ETQHQDEK*LDISSPGMSGHRQ GHDSLEHDELREIFNDLSSSSED EDETQHQDEK
21981	52349	C	22109	167	367	

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21982	52350	A	22110	754	1950	VK GKDDAPHELGE/SQFILRLPP VEYASTVRRRAVQSGHVNLDRL TIELHPDGRHGI\VRVDRVPLAS KLVD\LP\CVMEEPENPLLKKPF SKTAIIGQMLVSTVDGDLFPPV EPPSCLALDPKAS\KKKDKDKE KK\FIWNHGITLPLKNVRKRRF RKTAKKEIYLNLPDV*KKELKR VLEVPDA\EA VSTRWGIICPKV ETKGVAENQGLDISSPGMSG\H R\QGFHDSLEHDELREIFNDLSSS SEDEDETQH QDEEDINIIDEED LERQLQDKL NESDEQH QENEG TNQLVMGIQKQIDNMKGKL\QE TQDRAK\RQEDLIM\KVGNLGS PRTDFQAVLGMSFNQREDREK EQLASSLQEELESLLREVKKNLN FNFQSFRLVQHLGKFFGLLLL GYLRPCSS
21983	52351	B	22111	227	355	
21984	52352	A	22112	121	486	WGPALCIGGYLASFLASVHLMP LR*GEMLS P*GLSFSFRFP GFKE VRLVPGRHDIAFVEFDNEVQAG AARDALQGFKITLSPLKVSPPL GAFLEPCVSEWSPHSIVPRVCPQ TLHLALLGRN
21985	52353	B	22113	8	165	
21986	52354	A	22114	1	218	
21987	52355	A	22115	566	1412	TLHSM AVPETRPNHTIYINNLN EKIKKDELKKSLLRPSFF/SSLG QILGYSWGIHGRP*RM EGARPF SIFKEVSSGTNALR\SMQGFPFY\ DKPMRIPVLPRTLQDIHLPRIE RAPFIGSRDPKAGERGRPKSQG DPGPPKEGLCKGGGSHPRGGG LSRGP GPGHCPPMT\KAPRI\MH HMPG\QPPLTAAPLDMIPPPG\L APGQIPPGVAMPPIQQLM PGQMP P\AQ\PLWRNPP\NHILF\LTNLP\ EET\NELMLSHAFSNQVPPGFKE GPVWVPRAGNEHRPSVEV

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21988	52356	A	22116	2	1176	FGELSTFDAVRGPPRRCPDAD PRAPGLALPGRLLVSNRRTHS RESRAPPAPHLLGARAGMAPPQ VLA\FGLLLAAATATFAAAQEE CVCENYK\LA VNCFC E*INRQC Q\CTSVGAQNTVICS KLGCQMF W*MKAEMNGSKLGRRAKPEG GLQ\NNDGLYDPDCDESGLFKA KQCNG\TSTC\WCVNTAGVRRRT HKDTEVTCSEVR TYWIIELKH KAREKPY\DSKS\LR T*LQKEITT RYTLGSKFLSRVFWYENNVIT\I DLFQNFSSKLRNDVDIADVAY YF\EKDVK\GESLFHASKKMDLT VNGEQLDL DLLIPGQTLIYNVD EKAP*/DFSMQGLK\AGVIAVIV VVVITSCCWKLLVLVISQKGRE WQKYEKAEIKGDGCRCHRELQ
21989	52357	A	22117	3	257	AKALQWPLGRGGGGTTPGRSRP PGPH*SERGAVQPRSLPRQAA* RVPSGPADGQ*DGHGAADPGS RQRCKPWSEAADLHSECYSS
21990	52358	A	22118	1467	1748	SEYNCCEIGCPQPSWGPWGRG\ TDVRQQQVGEEEVHG/ECGGG SQG*RP G**AGSPAP*PGTWTGT AQQGPAAVLDPLRV*GGGIERH PLHSVGL
21991	52359	B	22119	1	1461	
21992	52360	A	22120	29	417	

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21993	52361	A	22121	616	1671	TATCKPWSMRTTISSSQPQKLT NSVKLPSSAKCISVSRIGGFLVS LTSRMKLRTLICSKLLPSGGV RGLAGSGVKLQFTVSVTALK AACLELFTSPGGFMVLLASEVK LQTFSAAGSDCLGQGRRAQRRP GPGVSAVGASGQQRAPESNERP AEEPTAPMPSSAPRGPTPALR RPSSADRPLAPGAGRPGAMAS PSGSSKATGKPRGRDGRPRREE DDVTPEEKRLRLLEEGSAQPD DGEDAPRPRKETGTQTGGDG RGAARAALLAVGGIRAPLPSLG VAPGC\PM SKPPRRHPGATPR/P GQGGSDAAHGEEGCPCCSSAV ATCLGAGLLP\PGRGASSPSSGC ALPSSSNSRSLFSSGVTSSSSLLG RPSLPRGLPVALELPEGLAMAP GALPAPGASGLSAELGRLSAGS VGPRGA\G*ASGRAWAPPRAAR CSLAPSAG\PRAHRGHAGPWA LSSP/GPGPSSRCPLRRSAASLL KPAR/AINPPGEVNNSRHAALR AVTLTVKVCSTPEPARPRTPE GRSFEHIRRVRSFILEVSETKNP PILDTLIHLALGGSFTLFVNFCG WDELIVVLIDQGLHVAV
21994	52362	A	22122	892	1931	CTWNNQRMEIVWEVLFLLQA NFIVCISAQQNSPKIHEGWWAY KEVVQG\NFVPVPSFWGLVNSA WNLC SVGKRQSPVNIETSHMIF DPFLTPLRINTGGRKVS GMTYN TGRHVSLRLDKEHLVNISGGPM TYSHRLEEIRLHFGSEDSQGSEH LLNGQAFSGEVQLIHYNHLYT NVTEAAKSPNGLVVVSIFIKVS DSSNPFLNRML\NRDTFTRN*H FKNDGIFYRGL*YRGELLFQG TSSFITYDGV DGLFPTPGY/SRT ASWIIMNKPV*YNPGCKMHSLR LL\SQEPAISRSFLSMSDNFRPV QPLNNRCIRTN\NFSLQ GKDCP NNRAQKLQYRVNEWLLK
21995	52363	A	22123	17	417	
21996	52364	A	22124	63	449	CHPALLGPTGHGAWPRHRAPD TLRASAGGRDP*GRRSAPA*ER QP*PPVYCAGISQYD*TALSSCL RRSVRTSTDFRSLDKSNYSVF LCFLQLAGRRYFAMWTRPEFFL ARDPRSLSWGLEWRPLSL
21997	52365	B	22125	1	1131	

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21998	52366	A	22126	359	548	
21999	52367	A	22127	755	1031	TRGVLEHMA LGKGT LKDPSPG AP*NHPE\VSHA ASTQEAAGPP AGRPGH GSGCLALPASSTSLEP GLRQDH D L L L Q L L W R E Q E V F H DVIQLL
22000	52368	A	22128	1	277	
22001	52369	A	22129	1	933	
22002	52370	A	22130	339	863	PSPV PARPVCPSSAPISMRPPCP WREAEAADLRPEAPGHRDGED VGFLSSGQLSGLCSKRKLQPTR AALTLT P SAVNKIK\HFLKNNPE HVGVKVGVRTRG CNGLSYTLE YTKTKGDSDEEVIQDGVRVFIE KKAQLTLL*TEM DYVEDKLSK GVGV\ITPNIKGT CGCGESFNI
22003	52371	A	22131	16	419	QIQHRPWP/SRSYTNVLGRKV YLPSFFTYAKYIVQVDGKIGLF RGLSPLMMSNALYTATRCFMK KDLPPEIEQVSNKDDMTSLN KVANDTSYEMMMHCVSRMLP HPLHVISMRCMDQIVGREAKYS GVLSSIG
22004	52372	A	22132	3	441	RSYTKFVMGIAVSM LTYPFLLV GDLMAVN NCGLQAGLPPYSPV FKSWIHCWKYLSVQIGASTGRR RPFLFFATSFS*NGFVDASLHAK GQLFRGSS\CFSAGCHQDHALP WSNLNHLKNTVSTWPPWVRPD HLGTPARRLQPNNNQM
22005	52373	A	22133	1	1232	MAGAGAGAGARGGAAAGVEA RARDPPPAHRAHPRHPRPAAQP SARRMDGGSGGLGSGDNAPT EALFVALGAGVTALSHPLL YV KLLIQVGHEPMPPTLGTVNLGR KVLYLPSFFTYAKYIGQRDG\RE GLVPRLSPRLMSNALSTVTRGS MKKVFPPEIEQVSNKDDYEDF P*RKLLKETS YEMMMQCVSRM L\AHPLHVISMRCMVQFVGREA KYSGLVSSIGKIFKEEGLLGFFV GLIPHLLGDVVFLWGCNLLAHF INAYLVDDSVSDTPGGIGKRPE SRFP\FSQALALRSYTKFVMGIA VSM LTYPFLLVGDLMAVN NC LQAGVPPYSPVFKSWIHCWKY LSVQGGQ\LFRGSS\CFSAGCHQD HALPWSNLNHLKNTV\STWPP W\RPDHLGTTARRFQPNNNQ

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22006	52374	A	22134	3	1156	PRHPRPAAQPSARRMDGGSGG LGSGDNAPTTEALFVALGAGV TALSHPLL YVKLLIQVGHEPMP PTLGTNVLGRKVLYLPSFFTYA KYIVQVDGKIGLFRGLSPRLMS NALSTVTRGSMKKVFPPDEIEQ VSNKDDMKTSLKKVVKETSYE MMMQCVRMLAHPLHVISM CMVQFVGREAKYSGVLSSIGKI FKE\EGLLGFFVGL\PHLLG\DV VFLWG\NLLAH\INAYLVDD SFS\QALAIRSYTKFVMGIAVS MLTYPFLLVGDLMAVNNGGAA SWGSPYPSPVFKSWIHCWKYL SVQGQLFRGSS\CF\SAG\HQDH GFALGVN*NHLKNT\VSTWPPW VRPDHLGTPARRLQPNNNQMC SSPAGFQFHICHVSVIQMWG
22007	52375	A	22135	2	425	
22008	52376	A	22136	2	430	
22009	52377	A	22137	2	406	
22010	52378	A	22138	1	297	
22011	52379	A	22139	1	111	
22012	52380	A	22140	1	398	
22013	52381	A	22141	1	409	
22014	52382	A	22142	500	1234	GPNCRPPSCSAVEGAWPRPQGA GARAAIALSQKLELGGVGLVQ VQCPSLAPSSTSSILFLCLLPHPP PHRCLQENTTCLLGVEGVLLLQ SPFLLKTDHSSLPALAPTQSQA ALWGFADFGMFESSPGGNLG WEPDIKLTDEMVMIMGGKMEA TPFKWFMEMCVRGYLA VRPY MDVVVSLVTIMLDTGLPCFRG/ QIKFLKHRFSPNMTEREA*NFIM KVIQSCFLSNRSRTYNMIQYYQ NDIPY
22015	52383	A	22143	2	6378	SAGPAGPLQVQKLLCMCPVDF HGIFQLDERRRDAVIALGIFLIES DLQHKDCVGPYLLRLLKGLPK VYWVEESTARKGRGALPVAES FSFCLVTLLSDVAYRDP SLRDEI LEVLLQVLHVLLGMCQALEIQ DKEYLCKYAIPCLIGISRAFGRY SNMEESLLSKLFPPHSLRVL EELEGVRRRSFNDFRSILPSNLL TVCQEGTLKRKTSVSSISQVSP ERGMPPPSPGGSAFHYFEASC LPDGTALEPE

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22016	52384	A	22144	3	398	IHKAASGVPPQPDAGCPGTGEQ QGGQRCGQ*AGP/AQAPC*SRA GTR/PTCFFVLTSLSWYRVDSP NKLMNPLVAGFFG/CHCGSGQC LRKCSSARDRAPDARPGDLAQ GRCCHCNKACLHASETGVTTSVL
22017	52385	A	22145	344	498	
22018	52386	A	22146	344	406	FLADQEDPLDPRAGCR*ETTAP RIPSKGPSSTEPLHASTAVPPCQ GELGCSRASPASEKI/DLAGRLIS PCNSDTVSPGLGGFMTCAQSLI SRRPGGPPIPPGWLQGPLHLG
22019	52387	A	22147	3	2058	LSGSGAPPPGVGAQAAAAAEE EEREVVRVRVKVRLAVSRPSRR GKFRSFAVDPQITSLDVLQHILI RAFDLSG*VGRCWGLLGRDRL GQEVYLSLLSDWDLSTAFATAS KPYLQLRVDIRPSEDSEYSVPPG AISP KDVIGSDVLLAEKRSSLTT AALPFTQSILTQVFSGLGTQQ VLSWSYGEDVKPFKPLSDAEF HTYLNHEGQLSRPEELRLRIYH GGVEPSLRKVSILSHLLVYPDG LTGRERMDYMKRKSREYEQLK SEWAQRANPEDLEFIRSTVLKD VLRTDRAHPYYAGPEDGPHLR ALHDLLTTYAVTHPQVSYCQG MSDLASPI LAVMDHEGHAFVC FCGIMKRLAANFHPDGRAMAT KFAHLKLLLRHAIDPDFYQYLQ EAGADDLFFCYRWLLELKREF AFDDALRMLEVTWSSLPPDPPE HEVELVGPPSQVADTGFGDHR G\WPVRQRHMLRPAGGGGSTF EDAVDHLATASQGPGGGGRLL RQASLDGLQQLRDNMGSRDP LVQLPHPAALISSK\GLSEPLL YPDPLLSSFSPSPSSSSPPSTQ EASPTGDMAVGSPLMQEVGSP KDPGKSLPPVPPMGLPPPQEF RGNPFMLFLCLAILLEHRDHIM RNGLDYNELAMHFDRLVRKHH LGRVLRARALFADYLQSEVW
22020	52388	A	22148	130	387	
22021	52389	A	22149	1	279	



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22022	52390	A	22150	105	499	DMSDTSSEAGLTRFQAEASEK DSSMMQTLLTV/TPEAREAPA TQASSTTQLTDTQVLAAENKSL AADTKKQNADPQAVTMPATET KKVSHVADTKVNTKAQETEEA PSQAPADEPEPESAAAQSQENQ DTR
22023	52391	A	22151	285	984	TSLSCYFSRTKDSPKLGLLMVL LSIIFMNGNRSSEAVIWEVLRKL GLRPGYDWALSALAVRVVLW QERTVLGLHQSGGLVERVGCW TG*RAQGS DLGG*WVNGPELS APSLSVSWASMELPSCAGNLFS ILEMPLPTSGKCHSLE*IYLFYF SFSSLRIHHS LFGDVKKLITDEF VKQKYLDYARVPNSNPPEYEFF WGLRSYYETSKMKVLKFGCKV QK\KDPKEWAAQYRE
22024	52392	A	22152	259	578	
22025	52393	A	22153	296	2242	NMSDTSSEAGLTRFQAEASE KDSSMMQTLLTVTQNVPE TPKASKAL\EVSE DVKVSASG VSKATEVSKTPEAREAPATQAS SYLLSLTD\TQVLAA\ENKSLAA *HQNRMVDPQAC*QLPATET KKVSHVADYGRFNYKGFRRLR LAPS\QAPADEPEPESAAAQFSG RFRVFGPKVKAKKARKVKHLD GEKDGSSDQSQASGTTGG\RRV SKALMASMARRASRGPIAFWA RRASRTRLAA\WARRAFALPLEI TLKPRRAKGLRR\RVAKFQSSQ EPEAPPRGLALLQGRANDLV KYLLAKDQTKIPIKRS DMLKDII KEYTDVYPEI\NERAGYSLE\KV GIQLKEIDKNDHLYILLSTLEPT DAGILGTTKDSPKLGLLMVLLS IIF\MMNGNRS\SEAVIWE\LRKL\ GLRP\GIHHS\LLGDVK\KLITDE FVKQKYLGLCQKVPNSNPPEY EFLGACALY**EPAKMKSPQS FACK/VYQKEGSPRNWGSSVPP REGKGRMEADFECKLRLTLE AKAKGPRLEAPNGPLGLGSGE MLAGP\CNWDEA\DIGNPWAK ARIPPREQKLKAKAPKRSGSAS TGA\STSTNNSASIASA\STSGGF ISAAASL\TATLHIWGSSAGLWL ELGCQHQSARSGAC\GVSYK

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22026	52394	A	22154	1	487	EFRQPSFRRSIWPIYFLLTQA/VRTGNPAKFNQVLDQFGEKFQADGTYTLLIIRLRHNVIKTGVRMISLSYSRISLADIAQKLQLDSPEDAEFIVAKAIRDGVIEASINHEKGYVQSKEMIDIYSTREPQLAFHQEGKDSSVYSFREWGTRTGMSWLVCFLKLRL
22027	52395	A	22155	2	429	
22028	52396	A	22156	1	328	GTRFQADGTYTLLIIRLRHNVIKTGVRMISLSYSRISLADIAQKLQLDSPEDADFIVAKVGLVQEPQ
22029	52397	A	22157	138	2206	AVTPGAMKQEGSARRRGADKAKPPPGGGEQEPPIAPAPQDVE MKEEAATGGGSTGEADG\KTA AAAA*SNFPAKSWDYSHLWKD IKEHRETS*RKAVSGKEPRFVLR ALRMLPSTSRRLNHYVLYKAV/QGAFFTSNNATRDFFLPFLERA HGTQEADLLFRPRTGKAAGTPLLPEVEAYLQLLVVFMMNSKRYKEAQKISDDLMQKISTQNRRALDLVAAKCYYYHARVYEFLDKLADVVRISLHGRLRTATLRHDADGQATLLNLLLRNYLHYKLVPTSLRSLVSKSVFP/EEQAQQPNEWGQVTSYLHQGRKAIQ\LEYSEARRMTNALRKAPIQHTAVGFKQTVHKLLIVVELLLGEIPDRLQFRQPSLKRSLMPYFLLTQAVRTGNLPRFTQVLDQFGEKFQADGTYTLLIIRLRHNVIKTGVRMISLSYSRISLADIAQKLQLDSPEDAEFIVAKAIRDGVIEASINHEKAYVQ\SKEMIDIYSTRD PQLALH\QRISFCLDIHNMVWSRPMRV PSPKSYKQGSWSLQNRNGRERNKQDLE\FPKEMA\EDDDDSFPLKLGWGGVVRGWGTRQLCPPWGYPLPQGTCPFPSPHTAHMLAFRGRGWGCWEPATPDLPPGLLPSRVTLVQPGRRVGRQPPRG RVLASSVADRRGRISLCTPFREWGTRTWDVYGLLCFLKLRL
22030	52398	A	22158	86	348	

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22031	52399	A	22159	3	356	LPLSMDVRAPPAVMAAVDQAL KEFGRIDILINCSSSSCGLPFCR AAGNFLCPAGALSFNAFKTVM DIDTSGTFNVSRVLYEKFFRDH GGVIINITATLGNRGQALQVHA G\SAKAAVD
22032	52400	A	22160	3	255	GPWSCHAGA*GPGATQVSEDQ GLREPHGSRDLCSLG*KH*GAPI CAWPMSWDGPPAAHKVRPSVS APPVCINTLCYNLASAFS
22033	52401	A	22161	3	360	
22034	52402	A	22162	240	1356	AGNPSGIPGTRVHRGQRGGFAS TWSGRGAGSTPLQNSPPRQPHR EKEFLRQVLEGGSHTGVRPSA ARLVNPHSLVSPDLL*LVSRA T\PHIFLAARKLAGATGRRCLPL SMDVRAPPAVMAAVDQALKEF GRIDILINCESVLSEVGGFSQAP AAPAVSHSAGAAGNFLCPAGA LSFNAFKTVM DIDTSGTFNVSR VLYEKFFRDHGGVIVNITATLG NRGQALQVHAGSAKAAVDAM TRHLAVEWGPQNIRVNSLAPGP ISGTEGLRRLDASQGMSWGRG EGAGSWGSRGLSLLPSGGPQ ASLSTKVTASPLQRLGNKTEIA H\SVLYLASPLASYVTGAVLVA DGGAWLTFPNGVKGLPDFASF
22035	52403	B	22163	214	1647	

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22036	52404	A	22164	1765	1910	LSHPHSRTPPNRTPRRTRIPQRP AVMYSPLCLTQDEFHPFIEALLP HVRAFA YTWFNLRARKRKYFK KHEKRMSKEEERAVKDELLSE KPEVKQKWASRL LAKLRKDIR PEYREDFVLTVTGKKPPCCVLS NPDQKGKMRRIDCLRQADKV WRLDLVMVILFKGIPLESTDGE RLVKSPQCSNPGLCVQPHHIGV SVKELDLYLAYFVHAGRISSQS ESP\SQPSDADIKDQPENGTFGA SRDSFVT\SGVF\SVT*A*LRVSQ TPIAAGTGPNFSLSDLESSYY SMSPGAMRRSLPSTSSTSSTKRL KSVEDEMDSPGIEEPFYTGQAR SPGKWTVSPSGLSVSWSQGMPS PTTLKKSEKSGFQQPLPFHRPPS LGNGFHTAFTDLFIYQGPQSKF HIATPSILVHFRHSPFFQQGPY FSHPAIRYHPQETLKEFVQLVCP DAGQQAGQPNGSSQGVHNPF LPTPMLPPPPPPMARPVPLPVP DTKPPTTSTEGGAASPTSPTTRS /PGRTRPQQPFL/SYGPP*PHFLR AGIHHL
22037	52405	A	22165	63	250	
22038	52406	A	22166	1	817	SRLGHPRKDMDDDTKATLISY MSLSFRHGYCFSEDPCVHTELG IQSGRGGRGDPDPPGNALE*LA HLGP/SSHLGP*AQDGLVDAAG RASPLAGTEGAGRFSHLQPI/GP RGPPE*GAAGERFPSGVAG/GPR GAHGLPCPEQLQLQPPPPS*MP KTGSTFVAHFPSPLAQGHSPPG GGAGWCSCSPDRPPLLGVS HGELLNPNSPAYEVGAG/RPAT GSSGTRAGPPSPSHSAPGRTPSV SLCD/RHQCLRASPTGSIGSLPA HWREGLAGPLMD

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22039	52407	A	22167	240	1790	TAKNSYLESCPLHMENSIHQWP RQPFPPVRRQGADAACGAGSQ ALVPSHSDTDGVLPGAEWLGD GGPARVP/GAAGGRGPAPTS*A GP*LSL*APLCF\SGLSGNGKQL LGAAGRSSSHAQMHELHPAQ* HE*ATDHTGGQGGP/G*KQQNG PP/GPDNDLPAESTPPTWNEDF LPDAIPLAHPVPRQRRTGPAGP PGQTGPPGPAGPPGSKGDRGQT GEKGPAAGPPGLLGPPGPRGLPG EMGRPGPPGPPGPAGNPGPSPN SPQGALYSLQPPTDKDNG/TQG WPLPSWTQCW/SGVPGPRGPPG PPGPPGPRGPPGPGTPGSQGLA GERGTVGPSG/AGGAAAERGPE DPGRASPHPGAHDWDPRSPGLP RGRFWPGCCPESQPQDEEGWH PTRWGPCCPAWARPWTEERG/S RPAAGS/RGVSDIETPGRPIYPD DKSQSAVSVLCARSRLRAQLRP GAEQMNDCKGITGTRQDIHAV SFASEHNIQNWVSKHLQLSPPV TPATQAPLKVRVPQASTLVL
22040	52408	A	22168	104	271	PSCTNPYGGGRRCDSSVVPNQCF TKHMQSRLLG*GEKALEGGGG RGVKS LVTKRDF
22041	52409	A	22169	494	1074	KGTTLCQKHWWGGGYLHWGWHF EMMRLTIN\RSMDPKNMFAIWR VPSPFQ\PITRKSVGHRM\GGGK\ GAI*HYLTP\VKAGRLV\VEMG GRCEFARSAKVSLTQVALRSCP FASKRL*ACGTPREGCEQDQEE RERQQPRTPWTI*AE*PTAQHG WAYGKVPEPHMTLTPQGEILG ARFYMPKTCVVSVDILYIGY
22042	52410	A	22170	61	329	NQRSGKKSQPW*STITPPSLIWL SNSSTTLSSSKMGQSYSSS*PSY NCSVSRMFGSNMVPAATASGA SLTCPLLWLSMTHFRRKVGGW A
22043	52411	A	22171	21	444	STAQSISSDLHYFLALLVYYW AADARFLPGRIPWLIHKELEKS HTEYCLVGSSQYTPLVQVFRSN TLVSVLSTKTI*NQRSGKKSQP W*STITPPSLIWL SNSSTTLSSSK MGQSYSSS*PSYNCSSRAKSPTL TVFQS

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22044	52412	A	22172	163	1056	LEKSDHRISWSPGKTA\SPKSMP ERWHR*WAQILKD\MGITNEYEP R\VIN\QMLEFAFRYVTIL\DD AKIYSSHAK\KATVD\ADDVPIG QSRC\RAGSSLFTSPPPKRF/LLL RYLARQKKSNNPFCPLIKPY\SGP RLPPDRYCLTAP\NYRLKSFTE KGHSTSAGKELTVP\RLSVGFRL LSRTKVLPTLGAHPTPQ\TMSVF NLK*GTPHVPSPGQRFSTRCPT S\QS\PAVKSFQFPGNLSQFQNV L\INPIH*IGSQKHSYYPLNMMS S\QNTA\NESSNALKRKREDD DG\DDDDDDYDNL
22045	52413	A	22173	215	344	
22046	52414	A	22174	302	1330	ACEQKRGEGGNKNRERRKGE KAGRRQGTRQPCSRMRRTKQ VEKNDDDDQKIEQDGIKPEDKA HKAATKIQASFRGHITRKKLKG EKKDDVQA\AEAEA\NKKDEAP \VFADGVEKKGEG\TTARSSPQ PLAPKP\DEPGKAGETS\SECKM GEG*LLATEQGSPRLLAS\SEE KAGSAETESATKASTDNSSSK AEDAPAK\EEPQADVPA/AFG VFPNPLGALLAATTPAAEDAA AKATAQPPTETGESSQAEENIE AVDE\TKPKESARQDEGKEEEP EA\DQEHAWNSGEMGFPHPHPP GCLACLSLPSSQLHSEVPSCPAH VCESVLSHPLALFLSVWANI

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22047	52415	A	22175	2	1577	HGFRLPHQPALRRLDQRRPK TEDRCGHWDQILDLSIIKHLFS MSFIPVAEDSDFPIHNLPYGVFS TRGDPRPRIGVAIGDQILDLSIIK HLFTGPVLSKHQDVFNQPTLNS FMS\LGHA AWKEARVFLQNLL/ SL*SQARLRDDTELKRCAFISQA SATMHLPATIGDYTDFYSSRQH ATNVGIMFRDKENALMPNWLH LPVG\YHGRASSVVVSGTPIRRP MGQMKPDDSKPPVYGACKLLD MELEMAFFVGPGRNLGEPPIISK AHEHIFGMVLMNDWSARDIQK WEYVPLGPFLGEEFWGPLSLP WGGCPWDAL\MPFAVPNPKAV PQAPCRYLCHDEPYTFDINLSV N\LKGV\EGM\SQAAT\ICKVQILK YMYWT\MLQQAHSPTLSNGC\N LRPGGPPGLSGTHQAGPEP/EKN FGSMVELSWKGTKPIDLG\NG Q\RKFLLD\GDEVITAMATRD FKWYC\QGDG\YRIGFGQ\CAGK VLPALLPIMRFSLLFWKQRAQS TPFQPCDWGSSPRAVGLVPPFQ
22048	52416	A	22176	3	623	DSRNSSILPRRGALLKVNQELA GYTGGDVFSFIKEDFELQLNKQL IFDSVFSASFVGGMLVPIGDKP SSIADRFYLGGP TSIRGFSMHSI GPQSEG DYLGGEAYWAGGLHL YTPLPFRPGQGFGELFRTHFFL NAGNLCNLNYGEGPKAHYIVK LAECIRWSYGAGIVLRLGNIAR L\ELNYCVPMGVQTGDRICDGV QFGAGIRFL

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22049	52417	A	22177	352	2397	GPMSEGIASQGARRRRGIMGLR GLWASRADGRRGETEPEAKQEI LENKDVSFLLKVLIELLVETFTS IHH*GDDVFKAKNLIEVGVVST WCAFPVSSEELVNVPM*NIDTC QGTTCGVVSL*FPFCPEKSCFY GQNNTMVGNNEGSMVCYRLF TFLYWNLELGTFTL*LHSEKTS YGLSFFKPRPGNFERK*EAQQII EYTGLIEKLLK*VAYL*KSAEYS VSAFQSFPLGLGENRVAFLIP KGSYLIQ*VSNCGWHLHCQPLL WGSYHRILAEALRVLIESTWPFE G*LCNGTSQAFSCGPCTPSRSSA RHGHSVCGQLLVADVPGVKG MLGENNHLFLKY*SMNG*FA/L YFPLDLFSCFL*ESFPLTAPSLEG SRLTLETMYLLCQGGFGELFRT HFFLNAGNLCNLNYGKTCAIQE TIVVQLFSCLLAQYTKIRLGNIA RLELNYCVPMPGVQTGDRYVLG IIFHNHPLSSNFILFWTWFASGD TAGAARLLRLPTDDRAFRDGG GCSHNRQLPFPSTPLLSTQSPS WKGCSHAGCMHVCLGAQLPG LGAQLGHGSESQVERLLACGG RWGARRQGCCWHDLPKAPHA GCFLAGEKKVGDDQEPCTKTA AVREGESVGCTAEGGCLGLSG GCQGWLAPGLVELRSAAARQE GSRRRRKRRRHLLRVHPQKV
22050	52418	A	22178	1	1017	
22051	52419	A	22179	1	435	
22052	52420	A	22180	1	1353	
22053	52421	A	22181	1	834	
22054	52422	A	22182	2	2675	



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22055	52423	A	22183	72	1339	AMRGANAWAPLCLLLAAATQ LSRQQSPERPVTCTGGILTGESG FIGSEGFPGV\WPPECKTCKIT VPEGKVVVLNFRFIDLESDNLC RYDFVDVYNHANGQRIGRFC GTFRPGALVSSGNKMMVQMIS DANTAGNGFMAMFSAAEPNER GDQYCGLLDRPSGSFKTPN\W PDR\DYAGVTCVWHIVAPKNQ LIELKFEKFDVERDNYCRYDYV AVFNGGEVNDARRIGKYCGDS PPAPIVSENNELLIQFLSDLSLTA DGFIGHYIFRPKKL\PTT\TEQPV TTTFPVTTGLKPTVALCQQKCR RTGTLEGNYCSSDFVLAGTVIT TITRDGSLHATVSIINIYKEGNL AIQQAGKNMSARLTVVCKQCP LLR\RGLNYIIMGPSRVKDGAR QNSWPNSFIMMFQ\RNQKLLG CP*KISQC
22056	52424	A	22184	49	170	HTVGDGRLLRRP*REFGASFL* CFLEARFGLKNWGHCHWRH
22057	52425	B	22185	597	651	
22058	52426	A	22186	1	791	
22059	52427	A	22187	2	943	TGACAEPRVGLLFRLKGRCRG GRNMELGSL\YGFREAAEEEG EPEVKKRRLLCVEFASVASCDA A\VAQCFLAENDWEMERALNS YFEPPEAES\ALERRPETISEPKT YVDLTNEETDSTTSKISPSED QQENGSMFSLITWEYLMGL\D LKQSVQRRARGVCSYLAL*VLS LLFNSNVSYVYTERMNQLKMV LKKMQEAPESATVIFAGDTNLR DREVSDKVSLMFEDRLLLWRLI *VPFCQYTWD\TQMNSNLGITA ACKLRFDRIFFRAAAEEGHIIPR SLDLLGLEKLDGFRPSDHWGL LCNLDIIL
22060	52428	A	22188	277	534	

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22061	52429	A	22189	29	1305	VGVVLRVECPLCPGPAPMSVPA FIDI\SEEDQAAELRAYLKS\KGA\ EISEENSEGGLHVDLAQII\EACD VCLKEDDKD\VESVMNSVGIPY SWIL\EPDKQ\EA\FDLKALCEKA GSKFPRR*TA\PSLETCSFSLNLF H\GMG*GILPVKIH\SVICSL\IKV\ AASCG\AIQYHPQLEPGIKFRK WDFLNWN\LTGKKSTPLLKTT FMKALVE\CKKSDAASKGM\VE LLG\SY\PEGNASQ\ARVDAHRVC IV\RALKDPNA\FLFD\HLLT\LKP VKFFGKASLFHCSFLT\KFVSA* MGHHMSRFYPD*LRTFH*IPLG PVTMDPGIWPKMRLLF/TFMGN GQ*KNKEISF*PQCQ\QEPSRLGA D\DVESH\LVIDA\VRN*KWVYC QNWSRPRRKVVVSHSTHR\TFG K\QQWQTTVLTHLNAWKQNL NK\VKNSLLSLF
22062	52430	A	22190	194	413	
22063	52431	A	22191	3	160	EVKFQWVLSLG*SFSLPKSSFQ RCGAGGAVHWSTALFLLGAAS ASSYHQRP
22064	52432	A	22192	268	473	
22065	52433	C	22193	93	500	
22066	52434	A	22194	2	398	FFLRRSLALSPRPDCGLQWRNL GSLQAPLPGF\TF\SCSLPSSWD YRRPPRPANFLYF**RRGFTLL ARMV\SI*PHDPPASASQSAGIT GVSHRARPETYNFCSFIHSSLPV EPEAR\KMTKNSDIGEIW
22067	52435	A	22195	972	2180	PRHCCASASSAPAPSRPASSSSP PAACPW*GSLLGPAATPATWR R
22068	52436	A	22196	2271	3074	RDPSTPTVVRSLGVPLLSRRRFK MAPSVAATKLAERNETMVQTC WTETQSSSDGSTPRRVRI\SLAL WRPSLFFSMADTSLVLNFP\RV SSGVIRPSNKRPSLAILTRISRTS SPKYMPLTIFSN\SCFPGLRDPRSI SLSNSVRMSSNDPSSPKAPH\SG IDTHPPLVSFHQINVPQFLHVAS IGASADDQADFTVLVVIATGHH GAHCVIHHSYDVGIIVPSLFDGF VKQFDHICSFH\SARFKSLCPGD QDGLIYFGLLARKRKRESHR

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22069	52437	A	22197	1956	2747	FAFSPK*HSCLRPCI*FSSGLLH EVL*LLPLCWP*THGWDPGSRE ANKSPKLHAIRCWWVLEENL WLSSNSQSLQTVKN*ESHIN*SC RSNLI/HH*FWNQVK*K*LLNIS GNCFFFLRWSL/DSVAQAGVY WRDLGSLQPPPGFKRFSCLSLP SSWDYWHLPPCLAKFCIFSRDG /GFTIWARLVLNS*SCDLPASGS QSAGITGVSHHTWLQVTYFLK EMRSCYFSQVGWPQTPGLKQC SHLKLSSWDYRHMSPHLAISG
22070	52438	C	22198	85	228	
22071	52439	A	22199	2	434	
22072	52440	A	22200	1	1356	
22073	52441	A	22201	146	1909	ILHSLEISALLSLMMLTIGDVIK QLIEAHEQGKDIDLNKVKTKTA AKYGLSAQPLVDIIA\SVPPQY RKVLMPKLKAEPKITA\SGIVV VAVMCKPHRCPHISFTGNICVY CP/GVGPDSDFEYSTQSYTG\YE PTSMRS/IFRARYDPFLQTKDRI EQ*RQLGHSVDKVEFIVMGGTF MALPEEYRDYFIRNLHDALS GH TSNNIYEAVKYSERSLTKCIGITI ETRPDYCMKRHLSDMLTYGCT RLEIGVQSVYEDVARDTNRGH TVKAVCESFHLAKDSGFKVVA HMMPDLPNVGLERDIEQ\FTEFF ENPAFRPDGLKIYPTLVIRGTG LYELWKS\GRYKSYFS**PGLN WVARFLALVPPWTRVYRVQRD IPMPLVSSGVEHGNLRELALAR NEDLRIQCRDVRTREVGIQEIH HKVRPYQVELVRRDYVANGG WETFLSYEDPDQDIL\GLLRLR KCSEETFRFELGGGVSVIRELH VYGSVVPVSSRDPTKFQHGGFG MLLAMEEAERIS*RRNMGLGKI AVISGVGTR\NYYGKIGYRLPR PRTMVKMLEIMGHTQSHSFC SI LPWHEHRRIRISLNTQQRGL
22074	52442	A	22202	1	457	
22075	52443	A	22203	2	297	CVMYRDYPLELFMAQCY/GNIS DLGKGRQMPVHYG/CKERHFV TISSPLATQ/IPQAARGPGYGIM/ SIRVDGNDVFAVYNATK/EARR RAVAENQPFLIEARPT

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22076	52444	A	22204	3	1446	DWLLAKMAEAIAAAR\VWRLN RGLSHAALLLLRQLGGSGD*AR SHPPRQQQQCSALDDKP\QFPG ASAGVIDKLEFIQ\PNVISGIPYR VM\DPQGQIHQPQARDPHLAEG ERWLKL\YKS\MTLL*HPWDRIL **VFSGQGRILLT*TNYWLRR GTHVG\SARRLGQTRTLVFGQY RE\AGVLMYRDYPLELFMAQC YGNISDLGKGRQMPVNYG\CKE RHFVTISSPL\ATQDPSGRWGAA YAATGGANANRVR/VICYFRAR GAAS*GGDAHA\GFNFRCHNL SCPIIFFCRNNGYAISTPTSEQYR GDGIAARGPG\YGIMSIRVDGN DVFAVYNATKEARRRAVAENQ PFSHQAHDSTRVQAPSP\SDAS*T YRSVDEVN\YWENKGPPILPGF GHYLFSSQ\GWWDEEQQKAWR KQSRRKDPGPVQPS\VMEAFEQ AERK\PKPNP\NLL\FSDVYQNM PAPVRQPPE\SLARHFKTYGNH YPWDHFDK
22077	52445	A	22205	2	292	

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22078	52446	A	22206	1	1894	QSLADLLQSQPSITLTSQIWSP A*GFWSWGNLSVTTPSKIPATP TRTIAATPIQTL PQSQTAPKRID TPSLEEPSDLEELEQFAKTFKQR RIILGFT\QGDAGLAMVKLYGN DFSPTTIFRFEALNLSFKNMCKL KPLLEKWLND AENLSSDSSLSS PSALNSPGIEGLSRRRKKRTSIE TNIRVALEKS FLENQKPTSEEIT MIADQLNMEKEVIRVWFCNRR QKEKRINPPSSGGTSSSPIKAIFP SPTSLVATTPSLVTSSAATTLTV SPVLPLTSAAVTNLSVTASTSEA SSASETSTTQTTSTPLSSPLGTSQ VMVTASGLQTA AAAALQGAA QLPANASLAAMAAAAGLNPSL MAPSQFAAGGALLSLNPGTSLG ALSPALMSNSTLATIQALASGG SLPITSLDATGNLVFANAGGAP NIVTAPLFLNPQNLSLLTSNPPG GFTIEISNNNSTMVMTGMRIG TQAIERAPSYIEIFGRMQNLNS RSRWFDFFPTREEALQADKKNL LFTVRKFQNI RHTLFKCNKNT FQQCLLLEQDSSCGTGFCSMIT YPVMLLSSEQPVQSLSVRQCVI LLDAAAVISGGMGAVCLLLTH LCPLCYAGLLSEITDPESFVKDL LYSVP

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22079	52447	A	22207	1	2417	MRVRTSSLPSTMLRVQNYARA KAGPEYAFVDSTECSPQWMVS PLKRGTQTNGLDQKQVPVVG GAISTAQAQAFGLHGHVQLA GTSLQAAAQSLNVQSKSNEESG DSQQPSQPSQPSVQAAIPQTQ LMLAGGQITGLTLTPAQQLLL QQAQAQAQLLAAAVQQHSAS QQHSAAGATISASAATPMTQIP LSQPIQIAQDLQQLQQLQQQNL NLQQFVLVHPTTNLQPA\QFIIS QTPQGQQGLLQA\QNLLTQLPR QSQANLLQSQPR\TLTSQPATP TCTIAATPIQTL PQSQSTPKRIDT PSLEEP\SDLEELEQFAKTFKQR RIKLGFTQGDVGLAMGKLYGN DFSQTTISRFEALNLSFKNMCK LKPLLEKWLND AENLSSDSSLS SPSALNSPGIEGLSRRRKRRTSI EA\NIRVALEKSFL ENQKPTSEE ITMIADQLNMEKGVIRVWFCN RRQKEKRINPPSSGG\TSSSPIKA IFPSPTSLVATTPSPVTSSATTTL TVSPVLPLTSAAVTNLSVTGTS DTTSNNTATVISTAPPASSAVTS PSLSPSPSASASTSEASSASE\TS TTQ\TTSTPLSSPLGTSQVMVTA SGLQTA/AQLLPFKGAAQLPAN\ ASLA\AMAAAAGLNPSLMAPS QFAAGGALLSLNPGTL SGALSP ALMSK\STLA\TIQTLASGGSL K*TSLECKLGLVICPMREEPPD
22080	52448	A	22208	3	114	
22081	52449	A	22209	1	505	NLGVDLLPGYQDPYSGRTLTK GEVGCFLSHYSIWEEVVARGLA RVLVFEDDVRFESNFRGLRL MEDVEAEKLSW\YSYWTLAYA LRLAGARKLLASQPLRRMLPV DEFLPIMFDQHPNEQYKAHFWP RDLVAFSAQPLLAAPTHYAGD AEWLSDTETSSPWDDDSGR
22082	52450	A	22210	3	626	RAARAAPLLHLLLLGPWLEA AGVAESPLPAEVLAILARNAEH SLPHYL GALERLDYPRARMAL WCATDHNVDNTTEMLQEWLA AEGDDYA AAVVWRPEGEPRFYP DEEGPKHWTKERHQFLMELKQ EALTFARNWGADYI/LGATLGL WQDHSVNSLGGCSPGRAGACD VPSSKFADTDNLTNNQTLRLL MGQGLPVVAPMLDSQTNV

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22083	52451	A	22211	1	2004	MRAARAAPLLQLLLLLGPWLE AAGVAESPLPAVVLAILARNAE HSLPHYLGALERLDYPRARMA LCLQGPAQPQWDLWLAGFEEE QTGTSEVHWGPTWQGSTTLEA SGHRCATDHNVDNTTEMLQE WLAAGVDDYAAA VWRPEGEP RFYPDEEGPKHWTKERHQFLM ELKQEALTFARNWGADYILFA DTDNLTNNQTLRLLMGQGLPE VAPMLDSQTYYSNFWCGITPQ GYRRRTAEYFPTKNRQRRGCL RVPMVHSTFLASLRAEGADQL AFYPPHPNYTWPFDDIIVFAYA CQAAGVSVHVCNEHRYGYMN VPVKSHQGLEDERVNFIHLILE ALVDGPRMQASAHVTRPSKRP SKIGFDEVFVISLGARRPDRRER MLASLWEMEISGRVVDVAVDG WMLQQQVPFRNLRP*DLLPGL/ YKDPYFGPHS*PRAEVGLLSSD HYSIWEEVVSQGA WPRVVLVV *RNDVAPLRTNFQGGGLERL\M E\DVEGKRNLSEKPPFRILPLG R\KQVEPLRRET\AVEGLPGLV VAG*LPNW\TLA\YALRLAGGP ASLLALQPFAPHCCPVERISLPI HCFDQ\HPNEASTKAHFWRD\ LVAFSAQPLLAAPTHYAG\DAE WILLSRRHHSPWDDDSGRLISW SGSQKTLRSPRLDLTGSSGHSL
22084	52452	A	22212	1	468	ELSHNAKAKVMVASHNEDT/V LFALRRMEELGLHPADHQVYF GQLLGMCDQ\SFPLGQAGYPIL TQIHLFSPHTCRAAGGEVRCLP ALPRVWALRCGPNLIPAWDSH WKLLGTLLLELCAQGPLCDPH VLGPRGLSTFCQGQPTQPEPLG EQWPGWG
22085	52453	A	22213	1	1893	

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22086	52454	A	22214	390	2005	INRDVETACTYILRNTEDVMLE FVMREWKSKRKLLGQRLFNKL MKMTFYGHFVAGEDQESIQL LRHYRAFGVSAILDYGVEEDLS PEEAHEKEMESCSSAAERDGS TNKRDKQYQAHRAFGDRRNG VISARTYFYANEAKCDSHMETF LRCIEASGRVSDDGFIKLTAL GRPQFLLQFSEVLAKWRCFFHQ MAVEQQQAGLAAMDTKLEVA VLQESVAKLGIA SRAEIEDWFT AETLGVSGTMDLLDWSSLIDSR TKLSKHF/V*VPNAQTGQLEPLL SRFTEEEELQMTRMLQRMVDL AKKATEMGOVRLMVDAEQTYF QPAISRLTLEMQRKFNVEKPLIF NTYQCYLKDAHDNV\TLD\VDL SPREGWCFGAKPVRGAYLAQE RACAAEIGYEDPINPMYEATNT MYHRCLDYVLEELKHNAKAK VMVASHNEDTVRFALRRMEEL GLHPADHQVYFGQLLGMCDQI SFPLG\QAGYPVYKYVPYGPVM EVLPLYLS\RRALE\NSSLMKGTH \RER\QLLWLELLRRLRTGNLFH
22087	52455	A	22215	3	303	
22088	52456	A	22216	798	2250	VPRAPQGML*GPRKDACTPER RAGPPGGRGTADGGGCGALAG SGS/DDPRLCIWTFVLTDQLLLP TGPRPRGSVAAAATGPGVGA LRAPARAQPRGAVDGRPLLQ VLPHRRLEVSLGKSPKECVLW/ RHLLSESEKRPFVEEAERLRVQ HKKDHPDYKYQPRRRKSAKAG HSDSDSGAELGPHPGGGAVYK AEAGLGDGHHHGDHTGQTHGP PTPLTTPKTELQAGAKPELKL EGRPVDSGRQNI DFSNVDISEL SSEVMGTMDAFDVHEFDQYLP LGGPAPPEPGQAYGGAYFHAG ASPVWAHKSAPSASASPTETGP PRPHIKTEQSPGHYGDQPRGSP DYGSCSGQSSATPAAPAGPFAG SQGDYGD LQASSYYGAYPGYA PGLYQYPCFHSRPRPYASPLL GLALPPAHSPTSHWDQPRRNGS TAQGPKEGVAGALQGAVRSKA GLGAEKPLHSRPHSLDNGCTGC PGSGVSVRRLG



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22089	52457	A	22217	299	1631	LLEPHCGGKCFKRHWFPSCSEA SCVPSAAPQRW*HTG/SPEVPAA PGAQGREPSM/RDGEHAVRGGS CMEAGPMGLQCVDKKHQGVH N/RGEARVFLQSQVGAILPRPW PNPAPSEP/VQSPLASSTGP*VFP SRPGQQASGPA/RRHPGAEPGQ RGDAVQLLPRPQTSPhGPQDA ALSSAPHPWRQL/MASpGLQEA PLHPFCGHRSPCPVPWQLSPTD PIQSRPPARGWAPANQGRPSHP RCRGGGGAFCGHGF/SYTQPLT FRLASMVLSIHPKPPKETLRFPR NMVVAAEPGVPAMSQRRPRGC TRFSHTDKAPLDTCTDMNAYT CARRHSSTYSdHITLQGAFACT HTWAQsCTCQPPPTPAAKCLDR GQSSGMLHAGCVGWGGGTHV RVDLSSQLNRRVRPHLCMLRC WSSCHRASVSCTHPSLHTTGPV LISARTGADHTWYTAGTY
22090	52458	A	22218	383	762	RHQGNQKRKELSLK/CQKSRQE SPRAEENPKWREGKKETSESSV QKAGRAAAQAGAAASRVPG LSGSNLAPCNKGRLSAREDVSN SKLKILSSGRKHTEHVIMLKAW GLGRQSLRCRLFDLIPSHKV
22091	52459	A	22219	325	945	QPSPLAPKADLSAREGRFQLKV RCRLQQYQQQR\RKFAAAFLA FHFSLLGSCGILAEAGKKEKPE KK\VKKSDCGRIGSWVCVAPP SGDCGLGHHGRATRT*\AECKQ \TMKTQRCKIPCNWEGRQFGRG SAKLPSFQAWGECDLDT\ALKT\ KTGSLKRALHKSPNAQKTVTIS/ KSPCGKLTkPQNLQAESKkkk KEGKKPEGRLRD

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22092	52460	A	22220	1	1908	MKYIQDFQREKQEFERNLARFR EDHPDLIQNAKKS DIPEKPKTPQ QLWYTHEKKVYLKVRPDATTK EVKDSLGLKQWSQLSDKKRLK WIHKALEQRKEYEEIMRDYIQK HPELNISEEGITKSTLTKAERQL KDKFDGRPTKPPPNSSLYCAE LMANMKDVPSTERMVLCSQQ WKLLSQEKEDAYHKKCDQKK KDYEVELLRFLSLPEEEQQRV LGEEKMLNINKKQATSPASKKP AQEGGKGGSEKPKRPVSAMFIF SEEKRRQLQEERPELSESELTRL LARMWNDLSEKKKAKYKARE AALKAQSERKPGGEREERGKLP ESPKRAEEIWQQSVIGDYLARF KNDRVKALKAMEMTWNME KKEKLMWIKKAAEDQKRYERE LSEMRAPPAATNSSKKMKFQG EPKKPPMNGYQKFSQELLSNGE LNHLPLKERMVEIGSRWQRISQ SQKEHYKKLAEEQKQYKVHL DLWVKSLSPQDRAAYKEYISN KRKSMTKL RGP NPKSSRTTLQS KSESEEDDEDEDDEDEDEEEEE DDENGDSSEDDGDSSESSSEDE SEDGD/EGGADRAQWEGRGVL PGGPPGDSTSLTPQNEEDED EDDEDDEDEDNESEGSSSSS SSSGDSSSDSDSN
22093	52461	A	22221	129	2365	
22094	52462	A	22222	5	2730	PSLRFAISGFVWRLAAPASAAA ELRLDCSARRAPRCPRPALPSTR SAEGAVLCAFRREEQQAATA AAAAAAATAAAAAAPAPPPRP EEEPLPPREGAAAVPGRAGEGA ATQSQGGSRWSGKPGGRAAPA RPRRWLDSWRMNGEADCPTDL EMAAPKQGDRWSQEDMLTLE CMKNNLPSNDSSKFKTTESHM DWEKVAFKDFSGDMCKLKWV EISNEVRKFRTLTELILDAQ*HF KNPYKG\KKLKKHPDFPK
22095	52463	A	22223	1	446	RPSPTSSM/PGLWGYSRPCSSG VPASALQA*SPAFSPASQRPPTT SWWEVP*EEGRAVPWEGRIRA VGPAPAS*PSDLPAWSCRWRE TRG\SPAEDAMLLRAVEPLEGC QRPLLDSEPP/SPARTSAPAASA SPPAPGGPPCLARPLPR

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22096	52464	A	22224	582	1175	THTHVPAGTHPHTQTTSLSHLI GRALTVPESPKCPLLPSAC*PR PGRAQPAGPAWSKKEASNPGS E/PPQHSL*RRMAPPE\VPARA VHTCRCLSSAPPGARLPLDPER RAPQSPRSPPPSAQPPPPPPPPPP PPPGRRGPSQSWRPSPPPPRTR SRSPRRSRVRGPRAPALAAAPPP GARPGCAAACGSPTGCS
22097	52465	A	22225	609	5241	GPQTTWCGRPTMCQHCGPAVS SWKQPSHDPCCRGGENRRQPG TPARATQGRLLRRRPEGARVPSA RRGRPRARWRDKERNNTCVA ML*QVTNSTANAPQNNPEVDS IMAEKVEAPASVDWQKRCLT LETQLFRFRLQASKIRELLADK GHGTYISPFSLAKQMQUELEQRL LEAEQRAENAETQVGVMEEKV KLSNLKNVDSEGLHRKYQELL KAIKGKDELISQLEAQLEKQKQ MRAEEAKTVQEKAARIKEW
22098	52466	A	22226	2	205	
22099	52467	A	22227	1	6186	
22100	52468	A	22228	96	1584	DLGSGITASPPRPEPEHPVFPPA PHTPSKMGKEKTHINIV\IGHV \DSGKSTTTGHLIYKCGGIDKRT IEKFEKEAAEMGKGSFKYAWV LDKLKAEREPGNTIDISLWKFE\ TTKYYITIID\APGHRDFIKNMIT GTSQADCAVLIVAAGVGEFEA GISKNGQTREHALLAYTLGVK QLIVGVNKM DSTEPAYSEKRY DEIVKEVSAYIKKIGYNPATVPF VPISGWHGANMLEPSPNMPWF KGWKVERKEGNASGVSLLEA\ LDTILPPTRPTDKPLRLPLQD\ YK\GGIGTVPVGRVETGILRPG MVTTFAPVNITTEVKSVMHH EALSEALPGDNVGFNVKNVSV KDIRRGNVCGDSKSDPPQEAQ FTSQVIILNHPGQISAGYSPVIDC HTAHIAKFAELKEKIDRRSTK KLEDNPKSLKSGDAAIVEMVPG KPMCVESFS\Q*PVIG/RTPVRD MRQTAA\VGVIKINVQKKSVA GKVTKSAQKAQKAGK
22101	52469	A	22229	1	1023	
22102	52470	A	22230	1	396	
22103	52471	A	22231	2	1259	
22104	52472	A	22232	1	2514	

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22105	52473	A	22233	3	2027	EESDCLTEYEEDAGPDCSRDEG GSPEGASPSTASEMDVSLHFVL WGCLHVVYQRMIDKAEDVCLFV AQPGEVLVGLAVLTGEPLIFTL RAQRDCTFLRISKSDFYEYDSP KLECGWHSEDPNPWTSPSTGL NPLFLELCRHMVFQRLGQGDY VFRPGQPDASIYVVQDGLLELC LPGPDGKECVVKEVVPGDSVN SLLSILDVITGHQHPQRTVSARA ARDSTVLRLPVEAFSAVFTKSA RTITGCVWRYVRASASYCPYLP PLCDPKDGHLLVDGCYVNNVP GSLWRYVRASMTARRATCPRCA TPRTGTYSWMAATSTICQASGR PHHPHTQAPPAPHTRTRRTSPA AWVPKRSSPLTWGARMRRTSA PTGTACPAGGCCGSG*IPGLTR* RFQTLWKSSPAWPTCPVCGS*R LSSPAPTASTCARPSTASRPWTL GSSTRSILRTTRRMSTAVTTTAT PAPIITPST*GTNGTGCAQIRPA EPSPGARTSWNPSLSATFAPEEF VASP*LDVPICRMGQCCSLPGG ATLP*GPCGPQCMPGNVVPPER TAARYRQTTAYQTPACPTPPRG QRPT/CVPTVSSLQAGLQGGPRS DFDMA YERGRISVSLQEEASGG SLAAPAREPREQPAGACEYSYC EDESATGGCPFGPYQGRQTSSIF EAAKQELAKLMRIE

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22106	52474	A	22234	281	1832	NDSGLPDRPSSWNQPM EAPLQ TGMVLGVMIGAGVAVVVTAV LILLVVRRLRVPKTPAPDGPRY RFRKRDKVLFYGRKIMRKVSQS TSSLVDTSVSATSRRMRKCLK MLNIAKKILRIQKETPTLQRKEP PPAVLEADLTEGDLANSHLPSE VLYMLKNVRVLGHFEKPLFLE LCRHMVFQRLG/QGDYVFRPG QPDASIYVVQDGLLELCLPGPD GKECVVKEVVPGD\SVNSLLSIL DVITGHQHPQRTVSARAARDST VLRPLVEAFSAVFTKYPESLVR VVQPGPPSGPAPYPAPSYGHAP RALQIIMVRLQRVTFLALHNYL GLTNELFSHEIQPLRLFSPGLPT RTSPVRGSKRMVSTSATDEPRE TPGRPPDPTGAPLPGPTGLQGG PRSDFDMAYERGRISVSLQEEA SGGSLAAPAREPREQAGACEY SYCEDESATGGCPFGPYQGRQT SSIFEAAKQELAKLMRIEDPSLL NSRVLLHHAKAGTIIARQGDQ MEEVKVPAFAVIVD
22107	52475	A	22235	50	4287	PGRKSPGAEDRALWGPACRL TDSGLPDRPSSWNQPM EAPLQT GMVLGVMIGAGVAVVVTAVLI LLVVRRLRVPKTPAPDGPRYRF RKRDKVLFYGRKIMRKVSQSTS SLVDTSVSATSRRMRKCLKM LNIKKILRIQKETPTLQRKEPP PAVLEADLTEGDLANSHLPSEV LYMLKNVRVLGHFEKPLFLELC RHMVFQRLGQGDYVFRPGQPD A\SIYVVQDGLLELCLPGPDGKE CVVKEVVPGD\SVNS
22108	52476	A	22236	283	403	TCLSLVSGCGHCEKMNSEENW *IPIQWASSNPGRRRKNIR
22109	52477	A	22237	33	222	NGPM\CFVKQLEIPQYGYRNNV PTTTPRSNLAKELEKYSKTSFEY TINDNHTYGGGLGCMRPLV
22110	52478	B	22238	1	1860	
22111	52479	A	22239	303	672	GITACVFFSMAEGRTRAERSCD SK*AIGAPAE*GGASPGKSP WQGAGYSPLGACGHKARLWIP WRRSWSGEKGARGCRGTGKK LGHQGWWRWETPGRPGGAGPA GFPDPVVMGCEKEASRV
22112	52480	A	22240	1	1377	

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22113	52481	A	22241	1	2232	MQDTEKDDNNDEYDNYDEL VAKSLLNLGKIAEDAAAYRARTE SEMNSNTSNSLEDDSDKNENLG RKSELSLDLSDVVRVETVDSLK LLAQGHGVVLSNMNDNRNYA DSMSQQDSRNMNYVMLGKPM NNGLMKEMVEESDEEVCLSSL ECLRNQCFLARKLSETNPQER NPQQNMNIRQHVREEDFPGR PDRNYSDMLNLMRLEEQLSPRS RVFASCAKEDGCHERDDDTTS VNSDRSEEVFDMTKGNLTLL KAIALETERAKAMREKMAMEA GRRDNMRSYEDQSPRQLPGED RKPKSSDSHVKKPYYGKDP SRTEKKESKCPTPGCDGTGHV TGLYPHHRSLSGCPHKDRVP PEILAMHESVLKCPTPGCTGR GHVNSNRNSHRRDIQVFN LQKQEMIDRLESLSGCP IAAAEKLAKAQEKHQSCD VSKSSQASDRVLRPMCFV KQLEIPQYGYRNNVPTTTP RSNLAKELEKYSKTSFEY NSYDNHTYGKRAIAPKVQ TRDISPKGYDDANGYCKD PSPSSSTSSYAPSSSNL SCGGGSSASSTCSKSSFD YTHDMEAAHMAATAILNL STRCEMPQNLSTKPQDL CATRNPDM EVDENGTL DLSMNKQRPRDSCCPIL TPLEPMSPQQQAVMNNRC FQLGEGDCWDLVPDYTK MKPR\RIDEDESCDITPE DLDPFQEAL
22114	52482	A	22242	727	4372	LWACVLPGVTLPPFLGEKTSCK MEVDTEEKRRHTRSKGVRVPV EPAIQELFSCPTPGCDGSGHVSG KYARHRSVYGCP LAKKRKTQDKQPQEPAPK RKPFVADSSSVDECDDSDG TEDMDEKEEDEGE EYSED NDEPGDEDEEDEEGDRE EEEEIEEDEDDEDEDGED VEDEEEEEEEEEEEEEENED HQMNCNTRIMQD TDALDDNNDEYDNYDEL VAKSLLNLGKIAEDAA YRARTESEMNSNTSNS

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22115	52483	A	22243	34	1558	PASEEFNSLHGRTPRRDLECRN QQSTTEERRRHDCVQQASEHN EGK WDFAFSAQSQPKP*KPFDV PC*DSRPACP*EHTAGTSGSTSS ETCFFQSSEWPYGELGAYNIFT GPKSTLSSLVTGVSNSSSLS*LP SPKNTITNWFHTRDHSSYSEIHS KACANP*APSQPSR*ASWIATG SFRRAGLAT*PCCTGSKLLPAW VLANHRWDRTRDGIQKQGNSE *PSSPGTRAFEGNSSSPAPAASIT SMLSPSFTPTSVIRKMYESKEKS KEEPASGKAALGDSKEDTQKA SEENLLSSSVPSADRDYFSHY KFQTVRHYRGSSCS\PHLSQGQP FTPKEQDYSCLKGNWGRKNTH FGHSPVSLQHFFFRPVPPSSPLSP MVPNG*GLLTKLHPGFGTEDA GPGSTSTASSKFAPNWCASSWD GLESFTGNIWPHPGSALLPFN*S LVHPLLNPRPGNTSASGNGATA ANSAQSCILQALVSHGSSCSAF QDNPSETCPAGQACPHALP
22116	52484	A	22244	1502	2657	EGKVPLAFIVLTSLNNAVMSPSF FSCRLLV TALKVSSRCSAMKGV EFTTCWSTFKPFRPASTSSTEST TPECELSLSFSLFAERLERRGFK STLAFCSSISKISTLFSAWSSNGIG AK*FPEFCPGDRMACSRPASLSS SSCG/S*PKTAGSAS*SARVREPP TEPTGRD*PFSQ\TSSII EAKHGT LSRLKNSLKSKSPGDCSGKTAS LGTS*SAAGSCARMTSTSSSSAT PPLHSTIPSFTEAVRRLVLFPL* SSSSILSSKPVSSMVSD*LVGPA ENHSGSSSV*ESFLLRSPKTRLL SPNSLLKRLSLKSLRSLSLKSR RSLSLSGDPSQRSGQRLSSHQ SYVHQADEAHHYLSLMDFLSA GS*QRLSRGSPLQSSVSEG
22117	52485	A	22245	324	391	
22118	52486	A	22246	42	274	

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22119	52487	A	22247	1	835	MCAGNLCSWEERWAVDEKEA TDKKPHVGGFGQGAPAPAAPA AAMSGRSVRAVTRSRF*DDIKK VMAAIEKVRKWEKKWVTVGD TSLRIFKWVPVTDSEKEKSKS NSSAAREPNGFPSDASANSSLL LEFQDENS\NQSISVSDVYQLKV DSSTNSSPKPPKQSESLSPAHTS DFRTD\DSQPPTLGQGDPRSP LP\SEVADEPPTLTGRTSFHL ETQVVEE\EEDSGAPPLKRFCV DQPTVPQTGSEKLAPSRPSAFW ALPLFIAFWFWRPRVCWG
22120	52488	A	22248	3	244	
22121	52489	B	22249	271	711	
22122	52490	B	22250	73	200	
22123	52491	A	22251	885	975	GSTWWPAD*AQL*LHLPTRCM AECWEIPA
22124	52492	A	22252	102	909	PGGRHGRQNDFAAPGGRLEARI HGTVSAPLYHRVLCRLGSRPA SAAGPAARGGDLAPGEHSFCE DGNYARVESVDRSAINRAMQN PRKSTASVCWTFTASDLPAQGV \PRTSSTRTLREDPFPPSAEKWL RAVLHHFVNEKLQQIFIELTLKP SRRSMSGRHPLDSNPVLQQQGR CDLIENKLSPPGIMSVLDDVCP CTPRAGEQTRHCCRTAGGCGD PRAFQQLERRFVIHHYAGKTHR PLPGLTPTGNSTNARNIVMDTQ QRTGNN
22125	52493	A	22253	48	112	
22126	52494	A	22254	1243	1615	YSPSSWFSNLYQPSTGALSSSET PKDMAPMKSLREVRSQSHTSTL SRRSTSPGFRLNTKVSFHTGFSV AFTVRVFCFVRFRGSGMSFSFT* GSERPLGSIGIRLRASPTVTWISS AVGARJSSC



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22127	52495	A	22255	468	1431	SVSTTRSFSDSSAKTAAMPVT VTRTTHHNHPDVIFGAWGPP*S WGPLWALTQPLGLL\RLLQL\V STCVAFSLVASVGAWTGSMDN WSMFTWCFCFSVTLLILVELCG APGPFPPWSWRNFPIITFACYA ALFCLSASIIYPTTYVQFLSHGR\ SRDHAIAATFFSCIACGC\YATE VAWTRARPGEITGYMATVPGL LKVLETFVACIIFAFISDPNLYQ HQPALWCVAVYAICFILAAIA ILLNLGECTNVLPIPFPSFLSALA \FCLSSSMPPPLFSGPSTSSMRSM AASLGAREM*AAAAGMPTTW VPGTADWLRPS
22128	52496	A	22256	98	414	CTRVSVAEKTSVCLFGLYWESL SISSCESSAKWPFTIRSASSTT RHLSCRRFLK**CFSLINSHSRP GVATTISGRRFSILCCFCVDIPPT KIAVLIPVNLAT
22129	52497	A	22257	2	224	
22130	52498	A	22258	2	115	
22131	52499	A	22259	2	118	
22132	52500	A	22260	472	648	GPGGRSFTVWWNW*RRMAQC P\PAEGVQRPECLGPHRAVPAP AHVGLHQEPSRLPALH
22133	52501	A	22261	540	1893	GRCATPRPRWRGHQCDPPPGD VCVAWREMQLRNKKRRR\DLG NLIK\RFLTAPNSLPD/AVVLTTE EAVIFWCNVLAQQIFGL/PLEM MNEQPLEGAVREKALHTMREQ TQRMGLVKQL/LTLSKIEAAPT HLLNEKVDVPM/MLRVVEREA QTLVYNVNHTEPGTHITVRW QRVPHGAEFVVEE*SEGWPVPV PKPHRAVVGANAHISFCPPQEL SKRFTAIRKTKGDGNCFYRALG YSYLESLLPDAFQPLPPQAWV SPGESQGAGIRDPLWVPVPKP HRAVVGANAHISFCPPQELSKR FTAIRKTKGDGNCFYRALGYSY LESLLPDAFQPLPPQAWVSPG ESQGAGTRDPLWLWLFRLWLL RLLCLLLLLLGETAQSRALATW GRHKQGRRLARLSGILGFLARK QWLGGQVAQLLLQNLHLLLLR WAGLGIVVFQVSNQPAWERTG
22134	52502	A	22262	1	1772	
22135	52503	A	22263	107	294	LHLLSFGYLTHQLLCLHLKWDS HTLHSHHTIAR*AGCSEATWS PPRRLRAPRSRALCSGFR

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22136	52504	A	22264	1	474	
22137	52505	A	22265	1	148	VKYHEFTCSFKKQITVPEDARL LK*DVRGRPSRLFLADPPPHHT VNREY
22138	52506	A	22266	509	2755	YQSQSFDEDEMNQVTDWVDPS FDDFLECSGVSTITATSLGVNN SSHRRKNGPSTLAESSRFPARKR GNLSSLEQIYGLENSKEYLSENE PWVDKYKPIETQHELA VHKKKI EEVETWLKAQVLGRQPKQGG SILLITGPPGCGKTTTLKILSKEH GIQVQEWINPVLPDFQKDDFKG MFNTESSFHMFPYQSQIAVFKE FLLRATKYNKLQMLGDDLRTD KKIILVEDLPNQFYRDSHTLHE VLRKYVRIGRCPLIFIISDSLSD NNQRLLVPKEIQEWSISNIRFN PWAPTMMKFLNRIVTIEANKN GGKITVPDKTSLELLCQGCSGDI RSAINSLQFSSSKGENNLRPRKK GMSLKSDAVLSKSKRRKKPDR VFENQEVQAIGGKDVSLFLFRA LGKILYCKRASLTELDSPRLPSH LSEYERDTLLVEPEEVVEMSHM PGDLFNLYLHQNYIDFFMEIDDI VRASEFLSFADILSGDWNTRSL LREYSTSIATRGMHSNKARGY AHCQGGGSSFRPLHKPQWFLIN KKYRENCLAAKALFPDFCLPAL CRQTQLLPYLALLTIPMRKSSFR FSFYSKDIGELPSGRRTLWGRI GK WEGPGLDRGTWDD*TPDSG DEA\QLNG\GHSAEESLGEPTQA TVPETWSLPLSQNSASELPASQP QPFSAQGDMEENIIEDEYESDG DIEASLLIRLLLHSFHFCHFSGT
22139	52507	A	22267	2	161	
22140	52508	A	22268	1	599	VTRLFFQPGYGTLQPQRLLMPK KNR\IAIYE\LLFK\EGVMVPKK\ DVPIPKHPELA\DRNVPNLHVM KPMQ\SLKS\RGYVK\EQFAWR HFYWYLTK*GYQGVSISRDL \HLPP\EIVPCHPYGRSPSRRLAR PSG*KVLEG*ANLRGLHKNGEA DKRLPTRRECLCHPGA\DKKAE AG/ALGSSNPNFQFRGGFGRGR GQ\PPQ

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22141	52509	A	22269	1	345	KHPELADKNVPNLHVMKAMQ SLKSRGYVKE\DYHLHPPEIVPA TLRRSRPETG/RPRPKGLEGERP ARLTRGEADRD TYRRAVPPG ADKKAEAGAGSATEFQFRGGF GRGRGQPPQ
22142	52510	A	22270	2	161	
22143	52511	A	22271	2	641	RRPQHRACSF FSPGTGPCSRRR CLMPKKNRIA IYELLFKEGV M VAKKDVHMP\KHPELAD\KNG APTFHVMKGHAGLSKSPRATV KGTSFAWGDIFYWYLTN*GY QGVSISSRDYLS SCPREICLAT ATARSPSKRLGKAFLKRSWE GLRRPGEDFTRGGKFDRGYLT GRIAVATLVADKKAEAG/ALGS SNPNFQFRGGFGRGRGQ\PPQ
22144	52512	A	22272	1	1693	MFNSVPVQNE DGSFNFEGVKA EFRPGTQTQEYIKG MEDSASEV TVNREVTTDN PYTISVTNK TLS AIRIKMFMPRIA YELKVTVIKM AFELSTRCSKRLM/DGSFETVLT DVIEGKTMSGYDRSRRVNL PNF NNQVIFRVVRKTPDSNDSNVV DAIQVRSYAEVIDAKFRYPLTG LLFVEFDSKMFPNQLPTISIRKR WKIVNVPSNYDPESRTYNGNW DGTFKKA WTNPAWVLYDLM INQRYGLDQKELGISVDK WAL YEAAQYCDQM\LTAKAARNL ATFVT/CI IQSQTDA PREPAYIFT NDNVVNGDFS YTSQARRACTR RAT*CLMMSKTCINRTL SQYSI/ V/EGHSTVR\NNVTSITAIG\AHV EA/KANRRGRWILKTNL RSTTV NFATGLEMIPTIGDVVAISDNF WSSNLTMNLSGRLLLEVSGSQIF LPFRVDARAGDFIIVNKPDGKP VKRTISSVSADGKTIEINIGFGFP VKPNTVFAIDRTDLALQQYVVT KIDKGDDDEEFTASKSRRWSTIL ISTMKLITGLTSTTDRQASLSQI R/CPKPENVK\CPQSRESSRG

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22145	52513	A	22273	1	1843	MEDNLSINKIKILLSVSDGEIDE TFSLKQLMFNSVPVQNEGDSFN FEGVKAEFRPGTQTQEYIKGME DSSSEVTVNREVTTDNPYTISVT NKTLSAIRIKMFMPRIAYELKVT VIKMAFELSTRCSKRLM/DGSFE TVLTDVIEGKTMSGYDRSRV NLPNFNNQVIFRVVRKTPDSND SNVVDIAIQVRSYAEVIDAKFRY PLTVLLFVEFDSKMFPNQLPTIS IRKRWKIVNVPSNYDPESRTYN GNWDGTFKKAWTNNPAWVLY DLMINQRYGLDQKELGISVDK WALYEAQAQYCDQMVLTA ARNLATFVT/CIHQSQTDAYKV RDICSIFRGMSFWNGPREPAYIF TNDNVVNGDFSYSQARRACT RRAT*CLMMSKTCINRTLSQYS I/V/EGHSTVR\NNVTSITAIGAH VEA/KANRRGRWILKTNLRSTT VN FATGLEGMIPTIGDVVAISD NFWSSNLT MNLSGRLLLEVSGSQ IFLPFRVDARAGDFIIVNKP DGK PVKRTISSVSADGKTIEINIGFGF PVKPNTVFAIDRTDLALQYV TKIDKGDDDEEFTASKSRRWSTI LISTMKLITGLTSTTDRQASLSQ IR/CPKPENVK\CPQSRESSRG
22146	52514	B	22274	1	1452	

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22147	52515	A	22275	1	1902	MIQKVISGSKGGSQKPHNPVEM EDNLISFNKIKILLAVSDGEIDET FSLKQLMFNSVPVQNEGDSFNF EGVKAEFRPGTQTQEYIKGME DSSSEVTVNREVTTDNPYTISVT NKTLAISIRIKMFMPRIAYELKVT VIKMAFELSTRCSKRLM/DGSFE TVLTDVIEGKTMSGYDRSRRV NLPNFNQVIFRVVRKTPDSND SNVVDAIQVRSYAEVIDAKFRY PLTGLLFVEFDSKMFPNQLPTIS IRKRWKNVNPASNYPDESRTY NGNWDGTFKKAWTNPAWVL YDLMINQRYGLDQKELGFSVD KWALYEAQAQYCDQMVLTA AARNLATFVT/CIQSQTDAPRE PAYIFTNDNVNNGDFSYSQA RRACTRRAT*CLMMSKTCINRT LSQYSI/V/EGHSTVR\NNVTSIT AIGVAHVEA/KANRRGRWILKT NLRSTTVNFATGLEMIPTIGD VVAISDNFWSSNLTMLNSGRL EVSGSQIFLPFRVDARAGDFIIV NKPDGKPVKRTISSVSADGKTI EINIGFGFPVKPNTVFAIDRTDL ALQQYVVTKIDKGDDDEEFTS KSRRWSTILISTMKLITGLTSTT DRQASEVKPVNFTSSRHQAQPE VGLIPPLWPQGGHIAQTSKSS
22148	52516	A	22276	1	675	
22149	52517	A	22277	155	700	SGVLVGHALTARQPSSGRRLV VDHSANRRGRWILKTNLCSST VNFAATGLEMIPTIGD/GDFIIVN KPDGKPVKRTISSVSADGKTIEI NIGFGFPVKPNTVFAIDRTDLAL QQYVVTKIDKGDDDEEFTSKS RRWSTILISTMKLITGLTSTTDR QASLSQIR/CPKPENVKCPQSRE SSRG

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22150	52518	A	22278	1	1871	MEDNLISINKIKILLAVSDGEIDE TFSLKQLMFNSVPVQNE DGSFN FEGVKAEFRPGTQTQEYIKGME DSSSEVTVNREVT TDNPTISVT NKTLSAIRIKMFMPR\AYELKVT VIKMAFELSTRCSKRLM/DGSFE TVLTDVIEGKTMSGYDRSRRV NLPNFNNQVIFRVVRKTPDSND SNVVD AIQVRSYAEVIDAKFRY PLTGLLFVEFDSKMFPNQLPTIS\ IRKRWKIVNVPSNYDPESRTYN GNWDGTFKKA WTNPAWVLY DLMINQRYGLDQKELGISVDK WALYEEAAQYCDQMVLTA KA ARNLATFVT/CHIQSQTDAYKV V \RDICSI FRGMSFWNGESISVIID RPREPAYIFTNDNVVNGDFS YT\ SQARRACTRRAT*CLMMSKTCI NRTLSQYSI/V/EGHSTVR\NNVT SITAIG\AHVEARPTDCGRWILK TNLRSTTVNFATGLEGM IPTIGD VVAISDNFWSSNLTMNLSGRLQ EVSGSQIFLPFRVDARAGDFNIV NKPDAKPVKRTISSVSADGKTI EINIGFGFPVKPNTVFAIDRTDL ALQQYVVTKIDKGDDDEEFTS KSRRWSTILISTMKLITGLTSTT DRQASLSQIR/CPKPENVK\CPQS RESSRG

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22151	52519	A	22279	3307	5305	CRSSQNTQETSPDRALLVNLRP SQGPLLALWVPAEGVGGKGHC LPPRSFFRMDNQLVPAVSDGEI DETFSLKQLMFNSVPVQNEGGS FNFEGVKAEFRPGTQTQEYIKG MEDSSSEVTVNREVTDDNPTYI SVTNKTLAIIKMFMPRIAYEL KVTVIKMAFELSTRCSKRLM/D GSFETVLTVDIEGKTMSGYDRS RRVNLPNFNNQVIFRVVRKTPD SNDSNVVDIAIQVRSYAEVIDAK FRYPLTGLLFVEFDSKMFPNQL PTISIRKRWKIVNVPSNYDPESR TYNGNWDGTFKKAWTNNPAW VLYDLMINQRYGLDQKELGISV DKWALYEAQYCDQMVLTA KAARNLATFVT/CIHQSQTDAYK VVRDICSIFRGMSFWNGESISVII DRPREPAYIFTNDNVVNGDFS T\SQARRACTRRAT*CLMMSKT CINRTLSQYSI/V/EGHSTVRINN VTSITAIGVAHVEA/KANRRGRW ILKTNLIRSTTVNFATGLEGMPT IGDVVAISDNFWSSNLTMLNSG RLLEVSGSQIFLPFRVDARAGD FIIVNKPDKPKVKTISSVSADG KTIEINIGFGFPVKPNTVFAIDRT DLALQQYVVTKIDKGDDDEEF T\SKSRRWSTILISTMKLITGLTS TTDRQASLSQIR/CPKPEENVK/CP QSRESSRG
22152	52520	A	22280	3	412	PAAVA*VKTEPETPGPSCLSQE GQTA/VKTEESSELGNYVIKIDH LETIQQLLTAVVKKIPLITAK/W QRAMTMRKVLQEILEKNPRFH HLTPLKTKHIAHWCRCHGYTPP DPESLRNDGDSIEDVLTQIDSEP
22153	52521	A	22281	2	513	IFACWGKQAWPACCNSLRGQA VKGNQLLPVSLVKKRTTLAPNT QTASPRALADSLMQLARQVSR LE/QRAKREPENEEVDILSLSE PVKINIKKEQEEKQEEVKFYLP TPGSEFIGDVTQKRLEEVDSTFG DDL VQGFGSGGISRRYGEKPGVQ DLEVEPDSVTEMLQFYD

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22154	52522	A	22282	1	1197	MAWPCISRLCCLARRWNQLDR SDVAVPLTLHGYSDDLSEEPGT GGAASRRGQPPAGARDSGRDV PLTQYQRDFGLWTPAGPKDPP PGRGPGAGGRRGKSSAQSSAPP APGARGVYVLPIDADAAAV TTSYRYGLGRDRNESPPCGGRT RRPGARGMGWAAERRRLEPGS HATSELPAASEVTPVWSVGTA GGAFAAPCPETVLEHPRAGSAP LPSQPPSWGQPSEWPAFSRVGT GLPLTPTAGPSRARGARRPCPP ALPGHCLLDRTYTGLQTLGAET LLAVVNSAAMNVGVQVVDVE LHRHSLGEDCIYPQSSDISDA PPSLPLTIPAPVKASSPIKQSHEP VPDTSVEKGS\PGSCPFHL*GPL SHLGSSPGFLLWRPPGLLSSVA
22155	52523	A	22283	131	677	PSSLS/CDIFLRSPISTSPSPPLRPT PTSTPVHVKGQTAGSVINNPYV IMDKQPGQVIGATTPTSGSPTN KISTASQISQGTGSPVKIHGSSF VTSTVKVIKQEPGEAPHVPAT GAASQSPLPQYVTVKGGHMIA VSPQKQVITPGEQIAQSAKVQP SKVL/GQIG*CLPTLARADLLYS
22156	52524	A	22284	3	5128	LLKIHSSQSSPQAVLTIPSQLK PLSVNTSGGVQTIMPVNKNVQ SFSTSKPPAILPVAAPTVPVPSS APAAVAKGEDASCFSKSV EQ YYGWNIGKRRAAEWQRAMTM RKVLQEILEKNPRFHHLTPLKT KHIAHWCRCHGYTPPDPESLRN DGDSIEDVLTQIDSEPDHGS LG DGKSSSVGPTAVVTLLACHLEC PSSFSSADNLCRKLEDLQQFQK REPENEEVDILSLSEPVKINIKK EQEEKQEEVKFY
22157	52525	A	22285	112	651	GGLCTMARTKADWPANRTGG KAPRKQLAYKKPASQECGPLT GGVKKPHRYRPGTVGGSVKFR R\YQKST\ELLIRKL PFQ/RRLVR EIAQGL*NKILRFQSA AIGVALQE GKWRPNLVWPFLKDTNLVC*S MAKRVTIIAKKTFQLAPPHTVE NRALRIHSMGKHFISQKKKK NFSSSCYW
22158	52526	A	22286	1	339	



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22159	52527	A	22287	2	1369	EPAPPARRSLSAAAAASGTTVD TASHSLVFSQQ\LNMQREIGFRV NCTVAM*DVYFKAHRAVLAAF SNYFKMIFIHQTSECIKIQPTDIQ PDIFSULLHIMYTGKGPKQIVD HSRLEEGIRFLHADYLSHIATE MNQVFSPETVQSSNLYGIQISTT QKTVVKQGLEVKEAPSSNSGN RAAVQGDLPQLQLSLAIGLDDG TADQQRACPATQALEEHQKPP VSIKQERC DPESVISQSHSPSPSSE VTGPTFTENSVKIHLCHYCGER FDSRSNLRQHLHTHVSGSLPFG VPASILESNDLGEVHPLNENSE ALECRRLLSSFIVKENEQQPDHT NRGTTEPLQISQVSLISKDTEPV ELNCNFSFSRKRKMSCTICGHK FPRKSQLEHMYTHKGKSYRY NRCQRFGNALAQRFQPYCDSW SDVSLKSSRLSQEHLDLPCALES ELTQENVDTILVE
22160	52528	A	22288	363	947	STARRGKSRSPAVALQRQPSA ASRSPSSSRRRRGVSKEVSVPLA RTKQTARKSTN\GK\APRKQLA YKKPARKSA\PTGGVKKPHRY RPGYCGRSVKFRR\YQKSH*DF* FRKLPFQAVWVRENLLKDF*K QILRFQSRSYRVALQGGQVEA LSGVGLF*KTTNLLC*SMPKRV NNYCQKDIPAKHARIPWRTVL
22161	52529	A	22289	1	92	
22162	52530	C	22290	10	198	
22163	52531	B	22291	74	205	

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22164	52532	A	22292	2	1914	RGHCEPSRAAPSRADRH PASAL ARDPGRRRGPAGQAAPQPMEP ENIVANTVLLKAREGGGGNRK GKSKKWRQMLQFPHISQCEEL RLSLERDYHSLCERQPIGR\LF* EFCATRP ELSRCIAFQDGM AEY EATPDEKRKACGRRLMQNFL\S HTGPD LIPEVP\RQLVTNCTQRL EQGPCKELS QELTRVTHEYLSV APFADYLD SIYFNRFLAQKGLE REANTKNTLRQYRVLGKGGFG EVCACQVRATGKMYACKKLE KKRIKKRKGEA\MSLNEKQILE KVN\SRFVVSLAYG\YETKD\AL CLVLTLMNGGDLKFHIYHMGQ AGFPEARAVFYAAEICCGL\EDL HRERIVYRDLKPENILLDDHGH RISDLG\LAHVHPEGQTIKGRVG TVGYMAPECLKNERYTFSPDW WALGCLLYEMIAGQSPFQQRK KKIKRE\EVERLVKEVP EYSER FSPQARSLCSQLLCKDPAERLG CRGGSAREVKEHPLFKKLNFKR LGAGMLEPPFKPDPQAIYCKD VLDIEQFSTVKGV ELEPTDQTF YQKFATG SVPIPGKNEQMVET ECFQELNVFGLDGSVPPDLDW KGQPPAPPKGLLQRLFSSPKD CCGN\CS DSEEELPYPLAPSPRP
22165	52533	A	22293	102	403	
22166	52534	A	22294	1086	1436	
22167	52535	A	22295	965	1231	
22168	52536	A	22296	1434	2215	TPSFSLRTGVNKEHWVLLGFST EDGRWMFTRGGE\DTARIWD LRSRNLQCQRIFQVNAPINCVC LHPN\QAELIVGDQSGAIHIWDL KTDHNEQLIPEPEVSITSAHIDP DASLHGQLFNSTGNCYVWD\LT GG\IGDEV TQFIPKTKIPAHTRY ALQCRFSPDSTLLATCSA*LRR/ CKIWRTSNFSLMTEL\SIKSGNP GE\SSRG\WMWGCALIGGTPSNI VTASSNNLARLWCVKTEIKRE YGGHQKAVVCLPFND SVLG
22169	52537	B	22297	158	385	

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22170	52538	A	22298	145	1232	LPVRAEPTRAAAMSGDEMIFDP TMSK/NMKKKKKKPFMLDEEG DTQTEETQPSETKEVEPEPTED KDLEADEEDTRKKDASDDLDD LNFFNQKKKKKK\TKKIFDIDEA \EKGVKDL\KI*SDVQEPTEPED DLDIMLGHKKKKKKNVKFPDE DEILEKDEALEDEDNKKDDGIS FSNQTGPAWAG\SERDYTYEEL LNR\YFNIMREK\NPGYWLP GG RKRKFPGPWKPPQ\VRVGTKKT FFCPLLQDICKLLHRS AQ SISFA FLLG*IGVPSGSIDG**PNL*SKG RF\QQKQIENVLRRY\KEYVTC\ HTC\RSPDTIL\QKDTRLLFPYS AETC\HS\RFCFCWPVFKTGLPQA VHGQSRGTAPV PKA
22171	52539	B	22299	50	319	
22172	52540	A	22300	3	235	LLLYPLRSLPENPLRLVQQIYSF LKGSSEK*NDLPRVPLLELGVG LLPPNQYSCSRAKPLCTCGLTM SLDGAQQGFW
22173	52541	A	22301	3	2849	WAKPVARASPAAPVGRQCQIR GAWSWGEGRGQPGPASPAGS PATSEESLAPMAWRCPRMGRV PLAWCLALCGWACMAPKGTQ\ AEESPFVGNP\GNITGARGLTGT LRCQLQVQGEPPVHWLRDQG ILELADSTQTQVPLGEDEQDDW IVVSQLRITSLQLSDTGQYQCLV FLGHQTFVSQPGYVGLEGLPYF LEEPEDRTVAANTPFNLSCQAQ GPPEPVDLLWLQDAVPLATAP GHGPQRS LHVPGLNKTS
22174	52542	A	22302	3364	3899	LVFLFDDL GIVELVLP GNIVHGI MSVRPRVAAGLRVRLQPGRRW LRGPLQLGAPLGLDLLVDVPGS PRFVVGVELPLVV/EAPRPPTPP AAAQQARS*GLECPGRGAAAP REVLHLQTAHIHGPGPRGGPR ARPGLPGLCPP*T/FSCQEAKGE RGGAH SNGSGSKWPPPPPPPS

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22175	52543	A	22303	1660	4652	PNPNTCLCNHVESGPCCPSTHT YTLDLQPLFGVRVPTRPSGRG TQAEESPFVGNPGNITGARGLT GTLRCQLQVQGEPPVHWRD GQILELADSTQTQVPLGEDEQD DWIVVSQLRITSLQLSDTGQYQ CLVFLGHQTFVSQPGYVGLEGL PYFLEEPEDRTVAANTPFNLSC QAQGPPEPVDLLWLQDAVPLA TAPGHGPQRS LHVPGA AVGAW EGGSRLWLRAP EAGRKRWGGE VPPVTHAGAGMLR SERD
22176	52544	A	22304	54	288	SEAGQAQPA AA VGFVWTGRR A WETGEGYYSNSLSMELQL *RQ CI *DCFFSSSWRCSVPVYFKEEK YKGNLVCLLFFK
22177	52545	B	22305	243	2641	
22178	52546	A	22306	35	204	
22179	52547	A	22307	244	424	PSLFKNIMTFYPNLHFLWCRGR LYLDVWRQ/VR *FVRNTNYQLP LVLHNLLSRFNTFDEL V
22180	52548	A	22308	1	477	
22181	52549	A	22309	2	418	WYQHLLLMRASGSFQSWWKV KGEPAYHMANRP **SLISLRTK AKTGA *LFDYFVPHFIRKN *SLF TIAKAWNHPKCTSVTDWIKKM WYIYTMEYYAVTRRNKIVSFA ET *MELEVII VSKLTQE QKTKHC MFSLTSGS
22182	52550	A	22310	30	199	
22183	52551	A	22311	547	682	LVFLTNQRLVSTHQGTWWE *K *CQPVIPSL *FYFLRKFSVIVIW * *LLILP *HPMALKI /C/CCQAACS GHFTAGTGEITRPCSIS SKVLKR LSRL *STSGS **LVFLTNQRLVS THQGTWMKLEA IILSKVTQE QK TKHHMLSLRSGS
22184	52552	A	22312	2	194	CPSMIDWLKKMWHRYTMEYY AA \IKKNEIMS \FAGTWMKLEAI ILSKLTQE QKN \KHC MFSLITGS
22185	52553	C	22313	1	1845	

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22186	52554	A	22314	1	1384	MRFQDRTWQVPYPSQCSWGSS RQGYVPQARGIVLDSQEAYPSP GGTTLCMHDPDKQAPG/PVRRP APGNPNRLVVSVALQFLTFHES GITSALRVRLPQSV\SFQGPC TEA*RRASICRRRV*S*HSTKLDL GAVAAQQQAWVAG\PRSPQRR CHQYS*AGPAWLGLQRGRGSH RPDTSPWHFWALAGREEQVL PPESLL/RARTPGTHLAPGPGA* TRVQSGPGSWLTWAG*GTPQVI SS/PGAGAVGAPETTAVPTVSIA PRRSVEMWPETKEHLVAVARR KWVSAQEKRLSLRGCGSEKMG VSPGETRVYFPALTS\RCRRRCG RVSEPSPTASWAPAPSLGWAYQ LAGGRLVLRVGLSAGWRAACP QGGPISWLEGLSSGVLSAG WRAACPQGGPISWLEGLSSST MRQPRAQSSLPAPAPWGAPDP LAMLAAWIEARPGVWPTQPGP WQVSWVCV
22187	52555	A	22315	11	431	RHLLAAPPAPAAAAAALSH CLRSSGRLAPHTSRRLPRVVKR RVNALKNLQVKCAQIEAKFYE EVHDLERKYAVLYQPLFDKRF EIINAIYEPTEECEWKPDEEDEI SEELKEKAKIVDEKK\DEEKEDP KGIPEFW
22188	52556	A	22316	64	467	PAAWLPILVAARQLTVQMMQN PQILAALQERLDGLVETPTGYIE SLPRVVKRRVNALKNLQVKCA QIEAKFY\EEVHDLQRKYAVLY QPLFDKRFEIINAIYEPTEECE WKPDEEDEISEELKEKAKIEDE
22189	52557	A	22317	2	177	
22190	52558	B	22318	228	377	
22191	52559	A	22319	630	767	WRVKFKNTVKIQANF*KSRFIH LTVVPVTILSQVTQLTMSPKT

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22192	52560	A	22320	80	1362	VTACAAPAAWLPILVADIWSSY NMADIDNKEQSELDQDLDDVE EVEEEETGEETKLKARSA*LFR MMQNPQILAAALQERLDG/LW VETPTGYIESLP\RVVKRRVNA LKNLQVKCAQKETQFYE\EVH DLERKYAVLYQPLFDKRFEIIN AIYEPTEECEWKPDDEDEISEE LK\EKGGIEDEKKDEEKEDPKGI P*IWALT VFK\NVDLLSDMVQEH DEPILKHLKDIKVKFSDAGQPM SFVLEFHFEPNE\YFTNEVLTKT YRMRLEPEPDDSDHFSFDGQEI MGCTGCQIDWKKGKNVTLKTI RK*/RRNHKGRGTVRTGH*NQ FPNDSFSNFFCPLLKSPESGDLD ED\AEAILAADFEIGHFL\RERII PRSVLYFTGEAIEDDDDDYDEE GEEADEEGEEEGDEENDPDYD PKK\DQNPAECKQQ
22193	52561	A	22321	3	425	GCGCGGAAARGSPAPGRPAAS PPDCPLWLQGCYPPSPCDALSA TEADGCD*IYPPDTSRDGPHQA SLPGESSFPGQPND SYLPERGS ERSRQASYATPAAETQDPDEGL PQPGPEALPGGLQVPKSAAPFC GAQHAAGQ
22194	52562	A	22322	2	285	SRFEPRVRPTGGDRPHQASPPG DSSSFPGQPND SRLPECGSECRG QASYATPAAETQDPE*RSSPTRS *SP\PGGFQVPKSAAPFCGAQHA AGQ
22195	52563	A	22323	85	473	FTMPAVALVPKELYLSSSLKDL NKKTEVKPEKISTK/QDYVHSIL GTANIKKAIEEAERLSESLKLRY KEAEVRK*LEEKDRQKEAQQ LQQRQETGRE\GGTLAKVSLE NVLDYQDKTQKSNGEKSEKM

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22196	52564	A	22324	1	1449	MMRAHMFVYKELKQIYKKKT HPHQKVGKGYKQTLRGRHLR GQETYEKKLTHVYETDFKQQ QYYFHSILGPANIKKATGETER LSESLKLRYYEEVEIWKKLEEKD RQGEAQWLQQKRQETGREDGS MLAKGSLEIVLDSKDKTQKSN GEKNEKCETKEKGAITAKELYT MMMDKNISLIIMDAQRMQDYQ DSCILHSLSVPEKAISPGVTASW IEAHLPPDDSIDTWKKRGNVEY MVLLDWFFSSAKDLQIGTTLWH LKDALFKWEKGGYKNWFLCY SQYTTNAKVTPPPQHQNEELIS LDFTYPSLEESIPSKPAAEMPPP PIKVDEDELISDQISDNDQNER TGPLNISIPVESVAASKSDVSPH QPVPSIKNVPQIDHTKKLAVKL PEEHIIKSESTNHEQQSPQNEKV IPDCSTKPVVSSPTLMLTDEEKA HIHAETALLMEKNKQEKELQE RQQGKQ/K/EKLRREEHEQKAK
22197	52565	A	22325	185	2983	FIMPAVASVPKELYLSSSLKDL NKKTEVKPEKISTKSYVHSALK IFKTAEECRDRDEERAYVLYM KYVTVYNLIKKRPDFKQQAD CAYFLGQTVHILFQHRALLEKK YRAVGAITAKELYTMMTDKNI SLIIMDARRMQDYQDSCILHSL SVPEEAISPGVTASWIEAHLPPD SKDTWKKRGNVEYVLLDWF SSAKDLQIGTTLRSLKDALFKW ESKTVLRNEPLVLEGGYENWL LCYPQYTTNAKVTPPPR
22198	52566	A	22326	313	3720	FIMPAVASVPKELYLSSSLKDL NKKTEVKPEKISTKSYVHS/AP RKIFKTAEECRDRDEERAYVL YMKYVTVYNLIKKRPDFKQQQ DYFHSILGPGNIKKAVEEAERLS ESLKLRYEEAEVRKKLEEKDRQ EEAQLRQKQKQETGREDGGTL AKGSLENVLDSKDKTQKSNGE KNEKCETKEKGAITAKELYTM MTDKNISLIIMDARRMQDYQDS CILHSLSVPEEAISPGVTASWIE AHLPPDDSKDTWKKR

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22199	52567	A	22327	46	562	LLQGPFGCGDSMPVEARPSAA WRGGRAPGWTFFSPDRETWK PQ/RASQGESGQRRFGPCPRSGG RPPGPGSAAHSSRSQRWRKASR AWPAAPRKGLLPPAQAWPPTP AAGL*GFLAACKR/PPVGGRRGP APAPCRPASSRCFLICDSGPPCL CSASRAAWMGSAASSRVLFIEG
22200	52568	B	22328	51	445	
22201	52569	A	22329	51	366	CQWNTQTQVCYKQDVQSITAL GSAAQCTCLSSPR*SGKFKLLFS PGLPGTLVPSTIPATSAPRA/SHR AGEAWVGEPGRALAALQNSS\P DWAGYQGLPCKPSIRAA
22202	52570	A	22330	257	916	SPSGSNLETHLRAPDLGGPCPP GPRWWA*TPQPGHPQTRPSAA QPCFPFPQCQLIHCPC/SPAPGT VAAPPAP\TPASQCLLCPWTS PVCSPAPTFCPMAPVMAFMLP SYSFP/PGTPNLPAFFPSQPQFP SHPTLTSEMASASQP\GSPAGPR SPDSHVLVQPPGPPHHRPWVGP PHRSFSPAARPCSSTCCSWRK PLRVALEPWGPQGPQRQQL
22203	52571	A	22331	151	1232	GRLGDARGPQGPEAPGGEEAA RADSTRACRSCGLLGRRGCR PSLKNAELLELTVRRVQCVLRG RAREREQLQAEARRALRCRLHP VACTKVHTFVSTCAIDATVA AELLNHLLSMPREGSSFQDL LGDALAGPPRAPGRSGWPAGG APGSPISPFGPGDDLCSDEEA PEAELSQA/PC*GARLGARSPGQ PDHSPNCPGVSGGLDQCQPES CRGGARPSLGSPLLPGVQMW WG*GPGSLPGSSLPLMDGLQG QPLVTSPAQRPSVS*KNF*GPC SSGSGWREGATGRRKNFVELP ALSQVSPSPAFNPRLCGLWGQR WQKLVLGTSVPGSPGLNKSLN LPLQRGDERQVH
22204	52572	A	22332	1	1524	



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22205	52573	A	22333	3	8875	EDGSLLQEVGIIICLARGPGCGPE TPLYSPATGLALQLQGPAAMG ALWSWWILWAGATLLWQKSG EDWISGPTTVFSQPGLTQEASV DLKNTGREFLTAFLQNYQLA YSKAYPRLLISSLESASPVSILS QADNTSKKVTVRPGESVMVNI SAKAEMIGSKIFQHAVVIHSDY AISVQALNAKPDTAELTLRPIQ ALGTEYFVLTPPGTSARNVKEF AVVAGAA'GASVS\VTLKGSVTF NGKFYPAGDVLRT
22206	52574	A	22334	2	2214	ISATDGPLAPCHGLVPPAQYFQ GCLLDACQVQGHPPGGLCPAVA TYVAACQAAGAQLGEWRRPDF CPLQCPAHSHYELCGDSCPVSC PSLSAPEGCESACREGCVCDAG FVLSGDTCPVPGQCGCLHDGR YYPLGEVFYPPGPECERRCECGP GGHVTCQEGAACGPHEECRL DGVQACHATGCGRCLANGGIH YITLDGRVYDLHGSCSYVLAQ VCHPKPGDEDFSIVLEKNAAGD LQRLLVTVAGQVVS LAQGGQV TVDGEAVALPVAVGRVRVTAE GRNMVLQTTKGLRLLFDGDAH LLMSIPSPFRGRLCGLCGNFNG NWSDDFVLPNGSAASSVETFG AAWRAPGSSKCGEGCGPQGC PVCLAEETAPYESNEACGQLRN PQGPATCQAVLSPSEYFRQCV YDLCAQKGDKAFLCRSLAAYT AACQAAGVAVKPWRTDSFCPL HCPAHSHYSICTRTCQGS CAAL SGLTGCTTRCFEGCECD RFL SQGVCIPVQDCGCTHNGRYLPV NSSLLTSDC SERCSCSSSGLTC QAAAGCP\PGRVCEVKA EARN CWATRGL\CVLSVGANL\TTF DGARGATTSPGVYELSSRCPL QNTIPWYRVVAEVQICHGKTE AVGQVHIFFQDGMVTLTPNKG VWVNGLRVDLPAEKLASVSVS RTPDGSLLVRQKAGVQVWLGA

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22207	52575	A	22335	3	7639	ITCPENSHYEVCGPSPCASPSP APLTTTPAVCEGPCVEGCQCD GFVLSADRCVPLNNGCGCWAN GTYHEAGSEFWADGTCSQWCR CGPGGGSLVCTPASCGLGEVCG LLPSGQHGCQPVSTAECQAWG DPHYVTLDGHRFDFQGTCEYL LSAPCHGPPLGAENFTVTVANE HRGSQAVSYTRSVTLQIYNHSL TLSARWPRKLQVDGVFVTLPF QLDSSLHAHLSGADVVTTS GLSLAFDGD SFVRLRVPA
22208	52576	A	22336	2	224	HCYMVVQLWKPRSLRRKSDQL WSSWNQLNTSELSSFSAEMQT EAFDCGSMAGRM*QGGRYLLA ALWDSSVPLS*PQAEPSGVGP AHLTE/LLSPSRFVSISDLLAPKD LGTESQVSMEV*KDMGRFHWE DIPP*A*VFVIFVFQIFISRTY\DA TTHFETTCD DIKNLL*R*QGRYL LAALWDSSVPLS
22209	52577	A	22337	2	206	LSSSYLDQPCYETINRIKLYSES LARYGKSPYLYPLYGLGELPQG FAR*EPVFKTSVIQNLIFNIMCI
22210	52578	A	22338	2	457	
22211	52579	A	22339	2	1556	FVFPSEVAVGLALSPASIFLSFSS PFLRAQERLPSLLWWARSPCAF SLLGSCVRACPAMNEEYDVIV\ LGTGLTECILSGIMSVNGKKVL HMDRNPYYGGESASITALEDL YKRFKIPGSPPRVKWGEERDW NVDLIPKFLKANG\QLVKMLL YTEVTRYLDFKVTEGSFVYKG GKIYKVPSTEAALASSLMGLF EK\RRFKEFLVYVANFD\EKDPR TFEGIDPKKTTMRDVYKKFDL GQDVIDFTGHALA\LYRTDDYL\ DQPCYETINRIKLYSESLARYG KSPYLYPLYGLGELPQGFARLR CYLWEGTYMLNKP\IEIIVQE WGKVIGCKI*REEIARCMQLIC DPSYVKDRVEKVGQVITVICIP QPPPSKNTNDANSC\QIIIPQNQ\ VNRKSDIYVC\MISFA\HNVAQ GKSIAIVSTTVET\KEPEKEIRPA L\ELL\EPIGTEILVSISDLL\VPKD LG\TESQIFIS\RTYDATTHFETTS D\DIKNIYKR\MTGSEFD FEEMK
22212	52580	A	22340	66	420	
22213	52581	A	22341	64	140	
22214	52582	A	22342	2	254	

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22215	52583	A	22343	82	3530	HLIVAMPEPTKKEENEVPAPAP PPEEPSKEKEAGTTPAKDWTLV ETPPGEEQAKQNANSQLSILFIE KPQGGTVKVGEDITFIAKVKA DLSEKPTI/KWF/K/GKWMDLAS KAGKHLQLKETFERHSRVYTFE MQIIKAKDNFAGNYRCEVTYK DKFDSCSFDLEVHESTGTTPNID IRSAFKRSGEGQEDAGELDFSG LLKRREVKQEEEEPQVDVWEL LKNTKPSEYEKIAFQY/GITDLR GMLKRLKRSI
22216	52584	A	22344	66	358	TWVRGNPKPKITWMKNKVAIV DDPRYRMFSNQGVTLEIRKPS PYDGGTYCCKAVNDLGTVEIE CKLAEVKVIYQGVNTPGQPVFL EGQQQSLHNKDF
22217	52585	A	22345	67	3515	HLIVAMPEPTKKEENEVPAPAP PPEEPSKEKEAGTTPAKDWTLV ETPPGEEQAKQNANSQLSILFIE KPQGGTVKVGEDITFIAKVKA DLLRKPTIKWFKGKWMDLASK AGKHLQLKETFERHSRVYTFE MQIIKAKDNFAGNYRCEVTYK DKFDSCSFDLEVHESTGTTPNID IRSAFKRSGEGQEDAGELDFSG LLKRREVKQEEEEPQVDVWEL LKNAPSEYEKIAFQYGITDLR GMLKRLKRMREEK
22218	52586	A	22346	2	39	FQFCVSLFVYIQLNSDVLPE*PR HKKKPPTLSHWFLK*NLHL*N* NTKALKYRKL*V*LTSQLH*QM TYPFCNYLKTN*VTTNTKVK*T EGY*TAKTQKLYPDKVVMATN KPLKTRSPKIPAKYGSPhDTAT WTGSGLGLEAS*HSA
22219	52587	A	22347	1	113	
22220	52588	C	22348	47	337	
22221	52589	A	22349	1	2292	
22222	52590	A	22350	2	441	LRHAKWFQARANGLKSCVIVIR VLRDLVTRVPTWGPLRGWPLE LLCEKSIGTANRPMGAGEALRR VLECLASGIVMP/QHALRLAAF GQLHKVLGMDPLSPKMPKKPK NENPVDYTVQIPPSTTYAITPM KRPMEEDGEEKSPSKKK

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22223	52591	A	22351	45	402	HALAALEKLF PDTPLALDANK KKRAPVPVVRGGPKFAAKPHNP GFGMGGPMHNEVPPPNLRGR GRGGSIRGRGRGRGFGGANHG GYMNAGAGYGSYGYGGNSAT QGYK*LFHKTAAYGYS
22224	52592	A	22352	243	3113	FPDTTEEVKMRPMRIFVNDDRH VMAKHSSVYPTQEELEAVQNM VSHTERALKAVSDWIDEQKEG SSEQAESDNMDVPPEDDSKEG AGEQKTEHMTRTLGR\VMR\VG LVAK\CLLLKGD\LD\ELVLLC\ KEKPTTALL\DKVADNLAI\QL AAVTEDKFEILQSVDDAAIVIK\ NTKEPPLSLTIHLTSPVVREEM EKVLGETLSVNGPPGNVLDR SRIAAAFRGLPETQRWFQ\AR ANGLK\SCV
22225	52593	A	22353	139	245	
22226	52594	A	22354	875	2019	NPNSQMPKMTRSTKQLTNKSG QIDGCPGCRVVPTWCRLGHLSH YWAVWASILRFWEVWKYWL NMGRKSSEFPILKLN\RTMGD *VLPFHMYV\QPVVHPQLYPHS VTELTGDYFKPWWDGQPSLQQ VL\ERVDEWM\AKEGL\DPNV QVQFLFTLWEDWGLKKS\VLPG\ QCQ*LGAWPVGGFTSKQWD*S *KKAYSF\AMGCWPKNGLLD NMKGLSLQHGIRPHSGIDDCKNI ANIMKTLAYGGFIFKQTSKPVLI GRGQDGAGQGSLVGPPQNPL PHQRGKRESGHLCCPKVPSA SLWGSMP\LRGLCCPLQGALA TWPFLEARHFCAPPSPTPQSQPS ISPSHC\G\LRGTPGTHRLLPW YNRL\WGHQDPRCAPSHP
22227	52595	A	22355	507	916	RKKNEKEGTPPRNMGICEKT KPTFDWCT*K*RGAWNQVGKY TSGYYTGELPQSSKTGQHSNSG NTENTTKILLEKSNPKTHNW*I HQQ*NEGKTVKGSQREK*GYP QREAHQTNSRSLCRNPTRQKRV GVNIKHS
22228	52596	B	22356	72	359	

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22229	52597	A	22357	1236	1987	GNSSPPGLPCKSSSSPPPPPSLTG APARRAAAAPRPASRPRPPLA\ GGGVPLQFATRPP/PGPTRARRP TWR*GPRGSPEETPRRRREWTR RPEPGCRAQGSRRPARPPSGSS AVRSASPASSPAPAASAPLGPRS RWS*RPPSRPRR/SPPPPPGGRSR SDRER/GRRKEASPLTLAEAPA Y/RQDQAPPPGSPHLGFQSAAG PSRTASSAP/RSGIGGRGANTPA PAAIFPPSLRPPRAGPVGDLRAS GVDA
22230	52598	A	22358	287	2082	LKTETSEEKARRYKDRPSQLNA VFQEQKKMIQAQESITLEDVAV DFTWEEWQLLGAAQKDLYRD VMLENYSNLVAVGYQASKPDA LFKLEQGEQLWTIEDGIHSGAC SDIWKVDHVLERLQSESLVNR KPCHEHDAFENIVHCSKSQFLL GQNHDIFDLRGKSLKSNLTLVN QSKGYEIKNSVEFTGNGDSFLH ANHERLHTAIKFPASQKLISTKS QFISPKHQKTRKLEKHHVCSEC GKAFFIKSWLTDHQMHTGEK PHRCSLCEKAFSRKFMLTEHQR THTGEKPYECPEGKAFLLKSR LNIHQKTHTEKPYICSECGK FIQKGNLIVHQRIHTGEKPYICN ECGKGFIQKTCLIAHQRFHTGK TPFVCSECGKSCSQSGLIKHQ RIHTGEKPFECSECGKAFSTKQ KLIVHQRTHTGERPYGCNECGK AFAYMSCLVKHKRIHTREKQE/ CSQGGKSSCREAQLITHQ*CHA GEKLC*RGDYTSAFCGPSDIKH QRP/HSQNRN/CSPCGTASGQM CSLRR*QWICTGQKPCECSECG CAFRDQLCLILCYRKPIGRK\PD LCGKGLSKNL*FIMWPKSIHCE
22231	52599	C	22359	90	344	
22232	52600	A	22360	2	543	
22233	52601	A	22361	373	490	
22234	52602	A	22362	111	396	GAPPGIWCLSLWACRALSPLSS AAQHRKRPSALSPATPAGSRPL RRCAPGFAATKTQRVQRRPPRR *GAAAGAGGS*RPLCGVVIHSV LHNTPE

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22235	52603	A	22363	1902	3474	VPQRSTGSGRARSARRPLRAPD PCAAAPRVSPQPRPSECSGGR GGSKTWAKRNAGKELTDRNW DQEDEAEVGTFSMASEEVLK NRAIKKAKR\RNVGFESDTGG FKGFKRFGGYPSEERFSGFG\S GAGGKPLEGL\SNNGNITSAPP FASAKAAADP\KVAFGK*LPSPS RLLVDKNVSNPKTNGDSQQPSS SGLASSKACVGNA\YHKQLAAL DCSVRDWMVKHANTNSLCDL TPIFK\DYEK\YLANIETANTGN\ SGRNSESESNKVA\AETQSPSLF GSTKLQQUESTFLFHGNKTEDTP DKKMEVASEKKTDPSLGGTS ASFNFGKKVDSSVLGSLSSVPL TGFSFSPGNSSLF\GKDTTQSKPV SSPFPTKPLEGQAEGDSGECKG GDEEENDEPPKVVVTEVKEED AFYSKKCKLFYKKDNEFKEKGI GTLHLKPTANQKTQLLVRADT\ NLGNILLNVLIPP\NMPCTRTGK NNVLIVCVPNPPIDEKNA\TMP\ VTML\RVKTSSEDADELHKILLE
22236	52604	C	22364	65	283	
22237	52605	A	22365	3	419	
22238	52606	A	22366	1	512	CGRPPWKTGQRSQPSCPPGSSG SGRGIP\PAAWHEGEGPEAVLQ GHRAGRGPACRGLCCLPSQL GGPTSPTSAAASRACGSRGAATL VVKVKWFYHP/CRRPSWARGS ATARMRCTSPATRMRTTCRPSP TSARSWRASSMSRWPGAASAR TGRTSTTGHLRPHHRAPGDG
22239	52607	A	22367	1	2940	MRRRRKVAAIHAGPRPRSA SSEQRGRGPGAARRAGGAEEA ASGVTGGGGGGAGQHAGGLG FSAGGRAPSQRPLCGSMPARLF SKQEVDYCGLPAPPASSLRSRG HRQRIYSLNQLLQEALRTGRAR PGEPPGWLVTDKGGLGWGSSH SQAQGPDSQAAWGRAPPAHGS SPAFLQVLDVRPQSSRYLPPGT RVCA\YWSQSRCLYPGNVVRA PPPCFGRLLGVPAASSGVPTG ASGDEDEDLDSVVVEFDDGD
22240	52608	B	22368	215	356	
22241	52609	A	22369	282	499	YLLHCLPSDPPSFTNSPDGRGR RRRQRRRRSDPPGRGRTKSSTR VPGSNRFV*FHQR*GRLKEWM ANQDTN

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22242	52610	A	22370	105	619	ACQASSHSGPVWGPGERITPG A*ASARREPSRNQHPNLWVTE Q/I*IASPRTVANPLVPARTPTGP RTNPKHLIKQGRGQPRQPLSG STGGAGESPASGCAGGQPAHR VWIAPAARGCGQHTPWKAPAG NGQSPRPASATRMIGPSPSLSP APPAVVGVAALGSRNRCIL
22243	52611	A	22371	1	441	
22244	52612	A	22372	10	621	LRQLERGLAKGQPSTPVDRPLG PDPSAPGTLAGAALPPEPPAPC LCQDPQEDSVEDEEPPGSLGLP PPQAGVQPA AAAVSGTTQPLG TGPRVSLSPHSPLLSPKVASMD AKDLALQILPPCQVPPPSGPQSP AGPQGLSAPEQQEDEDSEEDS PRALGSGQHSDSHGESSAELDE QDILAPQTVQCPAQAPAGGSEE T*LRQLERGLAKGQPSTPVDRP LGPDPSPAGTLAGAALPPEPP APCLCQDPQEDSVEDEEPPGSL GLPPPQAGVQPA AAAVSGTTQP LGTGPRVSLSPHSPLLSPKVAS MDAKDLALQILPPCQVPPPSGP QSPAGPQGLSAPEQQEDEDSE EDSPRALGSGQHSDSHGESSAE LDEQDILAPQTVQCPAQAPAGG SEETIAKA

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22245	52613	A	22373	1	2271	MPGELLAPSCCCRGGPTRDRTD LSCDAAAATTILGGDRREPCAL TPGPSHLALTFLPSKPGARPQPE GASWDAGPG\LSTEAPLPATLE PRIVMGEETCQALLSPRAARTA LRDQEGWGL/SPQGSMDEREL HPAGTPEPPSSESSLADSSSSW GQEGHFFDLDFLANDPMIPAAL LPFQGSILFQVEAVEVTPLSPEE EEEEAVADPDPDSASYAEADDE RLYSGEPHAQATLLQDSVQKTE EESGGLRYDTASAPTRHRSLSVS PKACSCSHDCAPAG*RGPHLTP GLRYDTASAPTRHRSLSIPKAC GCSHDCVPAG*RGPHLTPGLRY DTASAPTRHRSLSVPKACSCSH ACVPAG*RGPHLTPGLRYDSTS ASARHRPHLRSRASGCGHPSNL AGRSRLCPRDRACGHHGSAGS/ SAWTGMSGSA\RHR*WG*A*L TPKGDPPG*EPAGRRPEG\TGT GTWTQPQGGLHGCQRPLADL AALPSASSLWAPEPSWPS/SALS PRAARG*GQPGGRLASGPGLGP AFG*PRGVISRAGRAGHLGSSD RAVSSPGAQSREEGPSRRQ*GD HRQSQAESQ*EEGPKGNVKAG LAADSGSHQDHHPEVQEHLPLC HRQA*CLQGDPAHAHLGFWR GQ\T*GP\CPASAQSR*EV*GAL R\DL SLGP*VST\QGP*A*VQG KGKG\GGGKGGPGGAGTA*HL
22246	52614	A	22374	2	211	
22247	52615	A	22375	43	241	
22248	52616	A	22376	184	332	
22249	52617	A	22377	1292	1923	KAGARGNQEGTMASSSG\TQK VLTIPRGCYQ*K*SKETLP*CSG WPNDAR\EA VVNC\CTEF\HLIS SEANEICNKSEKKTISPEHVIQA LESLGFGSYISEVKEVLQECKT VALK\RRKASSRFGKPLGIPEEE\ LFGDQANKELFGKSLDQQQAE\ LAQQ\EW\LQMQQAA\HQA\QL AAASAKCI*SRRGSFSGMEEDG GWISEIPPAEFLFLL
22250	52618	B	22378	1	1701	
22251	52619	A	22379	1	147	



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22252	52620	A	22380	1	484	IRHEGRGQRGKMELVQVVKRG LQQITGHGG/LFRGYLRVFFRT NDAKVGTLVGEDKYGNKYEE DNKQFFGRHRVWVYTTMNG KNTFWVDVDSMVPPEWHRWL HSMTDDPPTTKPLTARKFHLG RNH*ISTWTGAPQEYVPYSTT RK\KIQEWIPPSTPYK
22253	52621	A	22381	3	258	DMAAQIAEGMAFIEERNYIHRD LRAANILVSDTLSC\IADFGLA RLIED\FTIKSDVWSFGILLTEIV THGRIPYPGMTNPEVIQN
22254	52622	A	22382	1	738	
22255	52623	A	22383	233	1898	GAGPTGYLRRLPGWAGTMGC GCSSHPEDDWMENIDVCENCH YPIVPLDGKGTLLIRNGSEVRDP LVTYEGSNPPASPLQDNLVIAL HSYEP SHDGLGFEKGEQLRIL EQSVIEWWKAQSLTTGQEGFIP FNFVAKANSLEPEPWFFKNLSR KDAERQLLAPGNTHGSFLIRES ESTAGSFSLSVRDFDQNGGEVV KHYKIRNLDNGGFYISPRITFG LHELASAITPIASDGLCTRLSRP CQTQKPQKPQKPWWEDEWEV PRETLKLVERLGAGQFGRCGW GTTTGTTKVAVKSLKQGSMSA GRLPAEANLMKQLQHQLVR LYAVVT\QEPYIITEYMENGSL VDFLKTSPGIKLTINKLLDMAA QIAEGMAFIEERNYIHRDLRAA NILVSDTLSC\IADFGLARLIED NEYTAREGAKFPIKWTAPAI*S RGNSPPRSDVWSF\GDLLPEIFT HGRIP/YPQGIPNELIQKLERGY RMVRP\SNCPKLYQL\MRLCW KERPED\RP\TFDYLRVLEDFFK RHRRASNQPQALREPLRKPLCF
22256	52624	A	22384	3	203	
22257	52625	A	22385	2	467	
22258	52626	A	22386	1	468	
22259	52627	A	22387	1	645	

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22260	52628	A	22388	821	2637	AAASAWRATHSTTAAGRRTAL FRSPEPGNTRDTRRRRRATAPD CCRPATSPRALDWTSLHTRRH VQNYLQWSYWQVLVSRWIAF AGLAMADYLISGGTGYVPEDG LTAQQLFASADDLTYNDFLILP GFIDFIADVDLTSAITRKITLK TPLISSPMDTVTEADMAIAMAL MGGIGFIHNCNTEFQANEVRK VKNFEQGFITDPVVLSPSHTVG DVLEGKMRHGFSGNIPITETGFM GSKLVGIVTSRDIDFLAEKDHT TLLSEVMTPRIELVAPAGVTL KEANEILQRSKKGKLPVND ELVAIIARTDLKKSRYPLASK DSQPQLLCGAADVTDREEDKYR LDLLTQAGVDVIVLDSSQGNSV YQYARVLYFKQKYPHLQVLG GNVVTAQAQKNLIDAGVDGLR VGMGCGSICITQEVMACGRPQ GTCCVTR*AEYARRFGVPIIAD GGIQTGVHVKALALGASTVM MGSLLAATTEAPGEYFFSDGVR LKKYRGMGSLDAMEKSSSSQK RYFSEGDVKIAQGVSGSIQDK GSIQKFVPYLIAGIQHGCQDIGA RSLSVLRSMMSGELKFEKRT MSPQIEGGVHGLHSYEKRLY
22261	52629	A	22389	2	332	
22262	52630	A	22390	3	608	MTAVHAGHLNLKWDPKSLEIR TLAAERLVTQVTTLVNTNSKGP SDKKRGHSKKVHVLAASVEQA AENFLEKEDKIVKESQFL*E*LL AAVEYVRKQ/GKECLRPSLEEH LEGIISGAALMGDSSCKHDDHR ERIAAECNTVLQACRTCF/SEY MGNAGCKERSNSLNSAIDKMT KKTRDLRRQLHKA VMDHVS DSFLETNPVLL
22263	52631	A	22391	2	2864	

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22264	52632	A	22392	14	2897	PDWRETKQRPSASGLWNLALA QLAAEMTAVHAGHLNLKWDP KSLEIRTLAVERLLEPLVTQVT TLVNTNSKGPSDKKRGHSSKKV HVLAAVEQAAENFLEKEDKIV KESQFL*E*LLAAVEDVRKQG DLMKAAARRRSHDDPCSSVEQ GNMVQAA*TLLSAVTCLLILA\ DMGNVYKLLVQLKVVEDGILK LRNAGNEQDLGIQYKALKPEV DKLNIMAAKRQQLKDVGHRD QMAAARGILQKNVPILYTAS
22265	52633	A	22393	1	1584	
22266	52634	A	22394	1	3519	
22267	52635	A	22395	3	673	
22268	52636	A	22396	1	1574	DVPRDLEVVAATPTSLLISWDA PAVTVRYRITYGETGGNSPVQ EFTVPGSKSTATISGLKPGVDYT ITVYAVTGRGDSPASSKPISINY RTEIDKPSQMQVTDVQDNSISV KWLPSSSPVTGYRVTTTPKNGP GPTKTKTAGPDQTEM TIEGLQP TVEYVVSVYAQNPSGESQPLV Q\VAVPTIPAPTDLKFTQVTPTS LSAQWALPNVQLTGYRVRVTP KERTGPMKEINLAPDSSSVVVS GLMVATKYEVS VYALKDTLTS GPAQGVVTTLENVSPRRARVT DATETTITISWRTKTETITGFQV DAVPANGQTPIQRTIKPDVRSY TITGLQPGTDYKIYLYTLNDNA RSSPVVIDASTAIDAPSNLRFLA TTPNSLLVSWQPPRARITGYIHK YEKPGSPPREVVPRPRPGVTEA TITGLEPGTEYTIYVIALKNNQK SEPLIGRKKTVQKTPFVTHPGY DTGNGIQLPGTSGQQPSVGQQ MIFEEHGFRRTPPTTATPIRHR PRPYPPNVGQEALS

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22269	52637	A	22397	3	2382	QTEMIEGLQPTVEYVVSVAQ NPSGESQPLVQTAVTNIDRPG LAFTDVDVDSIKIAWESPQQV SRYRVITYSSPEDGIHELFPAPDG EEDTAELQGLRPGSEYTVSVVA LHDDMESQPLIGTQSTAIPAPTD LKFTQVTPTSLSAQWTPPNVQL TGYRVRVTPKEKTGPMKEINLA PDSSSVVVSGLMVATKYEVS YALKDTLTSRPAQGVVTTLEN VSPRRARVTDATETTITISWRT KTETITGFQVDAVPANGQTPIQ RTIKPDVRSYTITGLQPGTDYKI YLYTLNDNARSSPVVIDASTAI DAPSNLRFLATTPNSLLVSWQP PRARITGYIKEYEKGSPPREVV PRPRPGVTEATITGLEPGTEYTI YVIALKNNQKSEPLIGRKKTDE LPQLVTLPHPNLHGPEILDVPST VQKTPFVTHPGYDTGNGIQLPG TSGQQPSVGQQMIFEEHGFRT TPPTTATPIRHRPRYPNVGEEI QIGHIPREDVDYHLYPHGPGLN PNASTGQEALSQTTISWAPFQD TSEYIISCHPVGTDDEEPLQFRVP GTSVTSATLTGLTRGATYNIIVE ALKDQQRHKVREEVTVGNSV NEGLNQPTDDSCFDPTYVSHYA VGDEWERMSES GFKLLCQCLG FGSGHFRCDSSRWCHDNGVNY KIGEKWDRQGENGQMMSCTCL GNGKGEFKCDPHEATCYDDGK
22270	52638	A	22398	48	7500	GATMACCAAQGEERTVPCASG KRGPAATTSLVLWIPSVPPPVPF PTLWPPSWRRQPPGGIRDF RRLRREANLVATCLPVRASLPH RLNMLKGPGPGLLLAVLCLG TAVPSTGASKSKRQAQQMVQP QSPVAVSQSKPGCYDNGKHYQ INQQWERTYLGNVLVCTCYGG SRGFNCESKPEAEETCFDKYT NTYRVGDTYERPKDSMIWDCT CIGAGRGRISCTIANRCHEGGQS YKIGDTWRRPHETGGYM
22271	52639	A	22399	1	403	NSTNKRRGFCFITFKE\EMEKKY HNVGLSKCEIKVAMSKEQYQQ QQQWGSRGGFAGRARGGGG PSQWNQGYSNYWNQGYGNY GYNSQGYGGYGGYDYGYN YYGYGDYSNQSGYGVKVSRRG GHQNSYKPY

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22272	52640	C	22400	36	214	
22273	52641	A	22401	3	182	
22274	52642	A	22402	223	452	LESMTIFPYSDDKRAQYIFIQKD LLKKPVRHYYIMTLSHWAFNT RLALQYWKGHKTQIDSEA*Q LRNKTMKANFF
22275	52643	A	22403	1	1037	MSEEQFGGDGAAAAATAAVG GSAGEQEGAMVAATQGAAAA AGSGAGTGGGTASGGTEGGS ESEGAKIDASKNEEDEGHSS PRHSEAATAQREEWKMFIGGLS WDTTKDLKDYFSKFGEVVD TLKLDPTGRSRGFGFVLFKESE SVDKVMQKEHKLNGKVIDPK RAKAMKTKEPVKKIFVGGLSP DTPEEKIREYFGGFGEVESIELP MDNKTNRGRGFCFITFKEEPPV KKIMEKKYHNVGLSKCELK\VA \MSKEQYQQ\Q\QQWDSRGCCA GRA\RGGRGDQAE\GYGKGIQA RWAIKNSYKPYLNYSICQPYPP TAGTSLQALCRADFRFSQARSM
22276	52644	A	22404	299	1508	HYVGGSSSGGDGAAARAT/AR AVGGSAGEQ\EGA\MVAATHG ARGGVWEADAATGGGTASGG TEGGSAA\SEG\AKIYASKNEED EGHSSSPRHSEAATAQRGRM\ KMVIGGLSWDT\TKKDLKDYFS KFGEVVDCTLKLDPTG\QSRGF GFVLFKESES\VDKVMQKEH K\LVNGK\VNDPKRAKAM\KTKE PVKKIFVGGLSPDTPE\EKIREYF GGFGE\VESIELPMD\NKTN*RG RGF\CF\ITFKEEPPVKK\IMEKK YHNVGLSKCEIKVLLNEQYQ QQQQW*SIGGFAGIALVIGGGP SQNWNQGYSNYWNQGYGNYG YSS\QGYG\GYGGYDYTG\NN YYGYGDYSNQSGYGKVSRR GGHQ\NSYKPHTKFIPICNLFPN RWLKQYFPNLKIQFERGSCHLL
22277	52645	A	22405	3	189	EESEPERKRARTDEVLPPEEAAP RRKMRTTRTTCPVSRYAAPQL LLQKLLQRRRKGSCSRG
22278	52646	B	22406	1	1356	
22279	52647	C	22407	135	260	
22280	52648	A	22408	1	1740	
22281	52649	B	22409	80	371	

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22282	52650	A	22410	257	1200	ISWCCMEQKKRLP\FSKREG\PY EFIICPSEDSSPLLRC AFC!GGMS VKEQMETIRHPLQTTRGPGPGP LFTDGPDIPEAFLHGLLSIREM VSTEKVKPVGQSESEPRVKPLEL DDSASGGVHMMVATPGRLMD LLQKKMVSLNICRYLALDEAD RMIDMGFEGDIRTIFSYFKHTSA AAIGLQLALDGGTGGSGQKGGC EEFPSSMSAVSTGLEASACCLS VTMDPLETLRSMASSTSSMSSL ARAWLSPEPGDSPGMVGGLP ELPGMAPLECGEFQRPESLCAD RNELGSQSPEFPQEEDEDED DEEDEDE
22283	52651	A	22411	107	2069	GGVSPWRACVQQRMESEPER KRARTDEVLP EEAAPRRKMRT TRTTCPMCRYGSAGSLLLQKLL QR\RRKGAAEEEQD SGSEPRG DEDDIPLGPQ\SNVSLLDQH QHL \KEKAESA AKESCQGRKQLEGK KEKILGRIVCRAE\LDVK*KAD WLKGITVLIDPIKTQLGLPPRY MFLSMSEERHERVRKKYHILVE GDGIPPIKSFKEMKFPAAILRG LKKKGIIHPTPIQIQIPTILSCR DMIGIAFTGSGKTLVFTLPVIMF CLEQEKRLPFSKREGPYGLIICP SRELARQTHGILEYYCRLLED SSPLLRC\ALCIGGMSVK\EQ\ME TIRQGVHMMVATPG/RALMDL LQKKMVSLDICRYLALDEADR MIDMGFEGDIRTIFSYFKGQRQ TLLFSATMPKKIQNFA\KSALVK PVTINVGRAGAASLDVIQVEVEY VKEEAKMVYLLECLQKTPPPV LIFA EKKADVD AIHEYLLKGV EAVAIHGGKDQEERTKAIEAFR EGKKDVLVAT\DVASKGLVFPA IQHVINYDMPEEIE NYVHRIGRT GR\SGNTGIATTFINKACDESFLI D\LKALLVRKPKQKVPPVL\QV L\HCGGWSPMLDIGRSSRGCAF CGGLGH\RTDCPKL\EA MQTK QVSNIGRKDYLAHSSMDF
22284	52652	A	22412	435	1428	

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22285	52653	A	22413	3	597	HKMAPYSPLVTRLQKALGVRQ YHVASVLCQRAKMAMSHFEPN EYIHYDLLEKNINIVCKRLNWP LTLEKIVYGHLLDDPASQEIEQ GK/S/YLWLWPDHVAMLQFISKI GATTSVFPYNHRMRRYLSK/TG RTDIANLADEFQDHLVPDPGCH YDQLIEINLSELKPHINGPFTPD QAHVPAEVGKVAEKEGWPLDI RVGLT
22286	52654	A	22414	29	512	
22287	52655	A	22415	1	543	
22288	52656	B	22416	271	719	
22289	52657	A	22417	1	2438	SVHKMAPYSLLVTRL*KALGV RQYHVGSVLCQRAR\AMSHF EPNEYIHYDLLEKSINIVRKRLN RPLTLSEKIVYGHLLDDPASQEIE RGKSYLRRLRPDRVAMQDATA QMAMLQFISSGLSKVAVPSTIH CDHLIEAQVGGEE\DL\RAKDI NQEYVNF\ATAGAKYGVGFV KPGSGIIHQIILENYCVPWLSF*L GPDFHTPNGGG\LGGINIGSCG WPNAWEWNGLGIPWELKCPK VIGVKLTGSLSGWSPKDVILK VAGILTVKGGTGAIVEYQGGPV DSISCTGMATICNMGAIEGATT SVFPYNHRMCKYLSKTGREIDIA NLADEFKDHLVPDPGCHYDQLI EINLSELKPHINGPFTPDLAHPV AEVGKVAEKEGWPLDIR\VGLI GSCTNFKLWKIWGRSAAVAKQ ALAHG\KCKSQF\TITPGFPRQI RATF\RDGYAQILRDLGG\VL ANACGPCIGQWDRKDIKKGEK NTIVTSYNRNFTGARNDANPET HAFVTSPEIVTALAIAAGTLKFN PETDYLTGHGWARSFRLGGSRI AD*VFPKGEF*PRGRDITYQHPP K\DSGGAACWDLSPQSRLQLL EPFDKWDGKDLEDLQILIKVKG KCTTDHISAAGPWLKFRGHLD NISNNLLIGAINIENGKANSVG NPVTQEFGPAPD\LARYYKKHG I\RWVIGDENYGE\SSREHAA
22290	52658	A	22418	14	260	RLCIGDAGVSPVCGP/CSAGGGP R*LNLEGGEESVPRGG/CCSP VTATTAPGPCFPK*SDGSGCAE APDSGE/CS*ALGPHCGD

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22291	52659	A	22419	160	460	RLCIGDAGVSPVCGPLSAGGGP R*LNL*GGESSSVPRGG/CCSP VTATTAPGPCFPK*SDGSGCAE APDSGNCGAFCALRSPHRHPGP KPARERLLLTGL
22292	52660	A	22420	43	418	SLGCAEQN/FPAIAIQPGMAQEE RLSRYQQFKDFQRRILVATNLF GRGMDIERVNIVFNVDMPEDS DTYLHRVARAGRFGTKGLAITF VSDENDAKILNDVQDRFEVNV AELPEEIDISTYIEQSR-
22293	52661	A	22421	1	592	RFSKYMPSVKVSVFSRGLSIKK DEEVLKKNCPHVVRTRARILA LVRNRSFSLQNVKHFVLDECD KMLEQLDMRRDVQEIFRLTPHE KQCMMF/ERLSRYQQFKDFQRR ILVATNLFGRGMDIERVNIVFN YDMPEDSDTYLHRVARAGRFG TKGLAITFVSDENDAKILNDVQ DRFEVNV AELPEEIDISTYIEQS
22294	52662	A	22422	2	575	
22295	52663	B	22423	100	412	
22296	52664	A	22424	2	441	
22297	52665	A	22425	682	1032	
22298	52666	A	22426	1	1324	MAEQDVENDLLDYDEEEEPQA PQUESTPAPPKKDIKGSYVSIHSS GFRDFLLKPELLRAIVDCGFEHP SEVQHECIPQAILGMDVLCQAK SGMGKTAVFVLATLQQIEPVN GQSGQVHIFGLHIGARALVISEH ILKDEGAVEGCGVVQCLMARV TVLVMCHTRELAFQISKEYERF SKYMPSVKVSVFFGGLSIKKDE EVLKKNCPHVVGTPGRILALV RNRSFSLKNVKHFVLDECDKM LEQLDMRRDVQEIFRLDTTPR KQCMMFSATL\SKDI\RPV\CRK FMQDPMEVFVDDETKLT LHG\ LQQYYVKLKTSEKNRSLFDLL\ DV\LEFNQV\IIFVKS\VQRCMAL AQLL\VEQN\FPAI\AIHRGMAQE ERLSRYQQFKDFQRRILVATNL FGRGMDIERVNIVFNVDMPEDS DTYLHRVARAGRFGTKGLAITF



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22299	52667	A	22427	9	1535	EAQQLVSRPAENRSWKCLLA ARGEERGASIMAEQDVENDLL DYDEEEEPQAPQESTPAPP\KKD IKGSY\VSIHSSGFRDF/LCLKPE LLRAIGGLVAFEHPSEVQHE\CI PQGHPGAWDVLLPGQSPGMGK TAVFRCWPPLQQI\EPVNGQVT VLVM\CHTRELAFQISKEYERFS KYMPSVKVSVFFGGLSIKKD\IE EVMKKNCPHVVVGTPGRILAL VRNRSFSLKNVKHFV\LDECDK MLEQLDMRRDVQEIFRLTPHEK QCMMFSA\TSLSKDIRPVC\RKFM QDPM\EFVVD\DETKLTLHGLQQ YYVKLKDSE\KTRKVFDLWD\V LEFNQVDILRQGQCKRCMAL\A QLL\VEQNFP\AQWPI\HRGNGPQ K\RPVNA\YQASSKDFPSGRDPL VATQILFG\RGMDIEAKSN\VFN YDMP*GLGTPYLHRV\ARRGR FGTKRP*PFTFVSDG\NDA\KILN DV\QDRF*S*MWAEL\PEEIDIST YIEQSRLNHQLARAGPPGAAPH AASPPLSRRHC
22300	52668	A	22428	3	290	
22301	52669	A	22429	1	690	MNQTSEKEIISKEQGNVKAAGA SDVVL\YKIDVPANRYDLLCLEG LVRGLQVFKERNFFLTVLEVEK SKTKVEQIQCLCSQEDIADKLG VDISATKAVHISNPKTAEFQVA RTTLLPGLLKTIAANRKMPPLPL KLFEISDIVIKDSNTDVGAKNYR HLC\AVYYNKNPGFEI\IHGLLDRI MQLLDVPPGEDKGGYV/IQSVG KLGVLHPDV\ITKFELTMPCSSL EINIGPFL

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22302	52670	A	22430	2	1834	GTRPTVSVKRDLLFQALGRITYT DEEFDEALCFEFGLELDEITSEKE IISKEQGNVKAAGASDVVLYKI DVLATRYDLLCLEGLVRGLQV FKERIKAPVYKRVMPDGKIQKL IITEETAKIRPFAGAAVLRNIKFT KDRYDSFIELQEKLHQNICRKR ALVAIGTHDLDLTLSPFTYTAK RPSDIKFKPLNKTKEYTACELM NIYKTDNHLKHYLHIIENKPLYP VIYDSNGVVLSPMPPIINGDHSRI TVNTRNIFIECTGTDFTKAKIVL DIIVTMFSEYCENQFTVEAAEV VFPNGKSHTFPELAYRKEMVR ADLINKKVGIRETPENLAKLLT RMYLKSEVIGDGNQIEIEIPPTR ADIIHACDIVEDAAIAYGYNNI QMHSPEFTF*ANQFPLNK\LT ELLRHDMAAAGFH*STLPLAL CSQGRYWLDKLGVGYLWQQR AVHISNPKTAEFQVARTTLLPG PP*RP*AANRKVPLPL\KLFEIS\ DIVIK\DSNT\DVGAKKTTTRQSL VAGLLPTKNPGFEINSWGCWD RIMAVCSDV\PPGGRQGGDM*F KASEGPAFFPGAMCRDSFARGQ SL\GKLG\VLHPDVIHQIWS*PLP CSSLEINIGPFL
22303	52671	A	22431	1	304	
22304	52672	A	22432	1	642	
22305	52673	B	22433	1	423	
22306	52674	A	22434	1	525	LHEHPVTESPMNCSVTLQLSLY MKSVA/GIGQTGKIEPVVLPLL WFAESGAMEGETLHTFYTQLV LMPKVMHYAQYVLLALGCVL LLVPVICQIRSQ/DRCWPEGSPG *QPFAFPPA*TDIILWTEPATLM AEVSACCAPELPPPHRV PQIIG AQAEVNEPGGPAFRALLDPGA
22307	52675	A	22435	3	483	VRGSGNSHGEVSKGRMCLAGA LPLPGACAALVLLLVLPEPLRC PLHTLYGGRDPVDSIRLWRQA GEFRHKSNTFNNNDTVSFLEY RTF\QFQPSKSHGSESDYIVMPN ILVLNKPRSTWISVCFVHGCIPA SRTGPRTESMHSKSLWKAWLA APGLPLL

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22308	52676	A	22436	1	1623	RRRPRLPGAEPCEPRVGPRRA DMGCSAKARWAAGALGVAGL LCAVLGAVMIVMVP SLIKQQV LKNVRIDPSSLSFNMWKEIPIF YLSVYFFDVMNPSEILKGEKPQ VRERGPYVYK/ESSRHKSNITFN NNDTVSFLEYRTFQFQPSKSHG SESDYIVMPNILLVGVAVMME NKPMTLKLIMTL\AFTTLG\ERA FHGTALWGEVVMWGYKDPLVN LINKYFPGMFPPKGGFGVFAEL NNSDSGLFTVFTGVQNISRIHLV DKWNGLSKVDFWHSDQCNMI NGTSGQMWPFFMTPESSLEFYS PEACRSMKLMYK\ESGVFEGIP TYRFVAPKTLFANGSIYPPNEGF CPCLESGIQNVSTCRFSAPLFLS HPHFLNADPVLAEAVTGLHPN QEAHSLFLDIHPVTIIPMNCVK LQLSLYMKSVAGIGQTGKIEPV VLPLLWFAESGAMEGETLHTF\ YTQLVLMPKVMHYAQYVPS WALG\CVLLLVPV/LSCQIRSQE KCYLFWSSSKKGSKDKEAIQA GSE*SLMTSAPKGS\VLQEAKL
22309	52677	A	22437	198	1062	STCVEMPRNLLYSLLSSHLSPHF STSVTSKAVAVNGVQLHYQH GEGDHAVLLLPGMLGSGETDF GPQLKLNKLLFTVVAWDPR GYGHSRPPDRDFPADFFERDAK DAVDLMKALKFKKVSLLGWS DGGITALIAAAKYPYIHKMVI WG\ANAYVT\DERPAG*YEGHP RMVSQMGVEGKKESL*EALYG YDYFARTCEKWVDGIR\QFKHL PDGNICRHLLPRVQICPPPLIVH G\EKDPLVPRFHADFIHKHVKG SRLHLMPEGKHNLHLRFADEF NKLA\EDFLQ
22310	52678	A	22438	223	393	AQASPLLP**ERSNVPCPIS

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22311	52679	A	22439	524	1516	FILEDITGYVMAPI DGLLCREPR RGLYLEGTKPMTL FQIQFLNSV GDLLDLIPSLSP TKNGSLKVFKR WDMGHCSALIKVLP GFENILFA HSSWYTYAAMLRIYKH WDFNII DKDTSSSRLSFSSYPGFLESLDD FYILSSGLILLQTTNSVFNK TLL KQVIPETLLSWQ RVRVANMMA DSGKRWADIFSKYNSGT YNNQ YMLVGPEESKAEPQSLTKGT/P VTLWEQIPTY/VRNISGT NLMFL RGKGFWA/SYNVPFHEKIYNWS GLSHC*FRKLGLGPTPYDFRPH EPKIFRRDPR/DK*LIRHPMKYI MRYN\NYKE\DPYSRGDPPVNT
22312	52680	A	22440	1	306	
22313	52681	A	22441	698	1613	FQFFQIFPEYKNNDFYVTGESY AGKYVPAIAHLIHS LNPNVREVKI NLNGIAIGDGYSDPESIIGGYAE FLYQIGLLDEKQKKIYFQKQCH ECIEHIRKQNWFEAFEILADKLL\ DGDLTSDPFLT SQNVTGCS\NY YNFLRCTEPEDQLYYVKFSLP EVRPAHPTLGN\QTFN\DGPIV* KVPCGEDTSTSPVKPWLTEI\M NNYRVLIY\NG\QLGHPSVAAAP DQSAPLMG\MDWKGSPIEYKK AEKK\WKIFKS\ DSEVA\GYI\ R QVGDFHQQVIIRGGGHILPYDQP LRAFDMINRFIYGKGWDPYVG
22314	52682	A	22442	1	258	
22315	52683	A	22443	366	848	
22316	52684	A	22444	1	585	ECLCVSTAVRIRHELKTMLTEL LRGGSFEFKDMRVPSALVTLH MLLCSIPLSGR LDSDEQKIQNDI IDILLTFTQGVNEKLTISEETLA NNTWSLMLKEVLSSILKVPEGF FSGLILLS ELLPLPLPMQTTQVS LPYNMHLINDCSNTF*KASDSV KKQKPSSPFLPKRHKITG*GGD KTETSWSLRKYGGKNFK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22317	52685	A	22445	625	2700	YIRGHSTPRKLWSMHLHVQAK LLQEIVRSFSGTTCQPIQHMLRR ICVQLCDLASPTALLIMRTVLD LIVEDLQSTSEDKEKQYTSQTT RLLALLDALASHKACKLAILHL INGTIKGDERYAEIFQDLLALVR SPGDSVIRQQCVEYVTSILQSLC DQDIALILPSSSEGSISELEQLSN SLPNKELMTSICDCLLATLANS ESSYNCLLTCVRTMMFLAEHD YGLFHLKSSLRKNSSALHKLK RVVSTFSKDTGELASSFLEFMR QILNSDTIG\CCG\DDNG\LMGSR RGAHTSRTMSINAAELNQLLQS TEESPEDLFLELEKLDLEHSD DDNLYSLD**RGLKQMLESSG DPLPLSDQDVEPVLSAPESLQN LFNNRTAYVLADVMDDQLKS MWFTPFQAEIEIGTDLDLVKVD LIELSEKCCSDFDLHSEIERSFL SEPSSPGRTKTTKGFKLGKHKH ETFITSSGKSEYIEPAKKEFMLC PPPRGRGRGGFGQGIRPHDIFR QRKQNTSRPP\SMHVDDFVAA E\SKEVVPQDGI/PSHPNRPLKVS QRISSRVGFSGNRGGRGAFHSQ NRFFTPPASKGNYSRREGTRGS SWSAQNTPRGNYNESRGGQSN FNRGPLPQLRPLKFPTG*PAPK SLGTRAS*MVRGG\LGTFPGLS AKLAASGGSRGKFVSGG\SGRG
22318	52686	A	22446	2487	3161	TWWLHISIIIPGGKKSYSRLGR GKR FATFVLLVGELCLTSYAP PSIHPILRSEAELNYSIFSFLA PAGEFALPRSFDCNPRVRLRAL RLALLILLFILCWTPYLLGM WYWFSPHMLTEVPPSLSHILFL LGLLNAPLDPSPSYGAFTLGCR RGHQELSIDSKEGSGRMLQEEI HAFRQLEVQKTVTSRRAGETK GISITSI*S*QSM*EQNSKSLVP
22319	52687	A	22447	232	337	
22320	52688	A	22448	1	1449	
22321	52689	A	22449	1	2004	

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22322	52690	A	22450	3	1558	APARDRAGGRRALPRLPAAS ARARGLTRALSRAMACRQEPQ PQGPPPAAGAVASYDYLVI GGGSGGLASARRAAELGARA AVVESHLGGTCVNVGCV PKVMWNTAVHSEFMHDH ADYGFPSCEGKFNRV VIKEKRDAYVSRLNA IYQNNLTKSHIEIRGH AFFATSDPKPTIEVSG KKYTAPHILIATGG/ MVPSTPH*EPRSRGASL *ITSDGFEQLEEIVPAA ASLVGARLPLSVEMAG ILSALGSKTSLMIRHDK VLRSFDSMISTNCTEEL ENAGVEVLKFSQVKEV KKALASGLEASMVTAV PGRLPVMPMIPD VDCLLWAIGGVPNTK DLSLNKLG IQTDDKGHIIVDEFQNT NVKGIYAVGDVCGK ALLTPVAIAAGR KLAHRLFEYKEDSK LDYNNIPTVVF SHPIGTVGLTEDE AIIHKYGIEN VKTYSTSFTPMYH AVTKRKTKCVMKM VCANKEEKVVGI HMQGLGCDEMLQGF AVAVKMGAT KADFDNTVAIHPT SSEELVTLR
22323	52691	A	22451	51	464	
22324	52692	B	22452	103	1184	
22325	52693	A	22453	52	148	
22326	52694	A	22454	1	3282	
22327	52695	A	22455	145	436	
22328	52696	A	22456	1	3622	MPGYRAGPFEEAFDRE DERQIECQGRGVDRKIT GEHTTFSGRSGPDHEL TLDGKGGCTRSMVP ASAASEDRRKLP IIVEDEGGPTRSRA CSSPARGSRPPSAIG CSPVAQASDSAAGP ARRTALQSLSSWLG YQIDRHSVPVYVFKS PLFSVIMAPKHKSSD AGNLDPRKRSKVLPL SEKVKVLDLIRKDKK SYAEVAKIYGKNESS IREIVKKEKEIRASF AVSPPTAKVTATVRD KCLVKMEQALHLWVEE
22329	52697	A	22457	3	422	VVELRCQDKEGNPAPE YTWFKDGIRLLENPRL GSQSTNSSYTMNTKT GTLQFNTVSKLDTGE YSC EARN SVGY/PQV PGKRMQVDDLNISG IIAAVCGLGVCYAQR KGYFSKETS FQKS NSSSKATTMSE NDFKHTKSFI
22330	52698	A	22458	1	208	
22331	52699	A	22459	122	321	

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22332	52700	A	22460	2	1169	HTPKTEQTPIPGLEDPPLGSQRLRRPGEGETDIPSRAVPPLPPLPTLCSFPAPQVQGPASCAPAAAGTLDLLRAAGCRPGKMARRSRHRLLLLLLRYLVVALGYHKAYGFSAPKDQQVVTAVEYQEAILACKTPKKTVSSRLEWKKLGRSVSFVYYQQTLLQGDFKNRAEMIDFNI RIKNVTRSDAGKYRCEVSAPSE QGQKPGVEDTVTLEVLGDVHVL APAVPSCQVPSALSQTVVELR CQDKEGNPAPEYTWFKDGIRLL ENPRLGSQSTNSSYTMNTKTGT LQFNTVSKLDTGEYSCEA\RNS VG*SEGPCETNASR*SQHKVGII GSR*\LWALVDFPFVGLVYSYG SEGKATFSKETSQKSNSSSKAT TMSENDFKHTKSFII
22333	52701	B	22461	57	168	
22334	52702	A	22462	1	682	
22335	52703	A	22463	398	1465	GTFFPSGLITGKKRKALLGACDCTQIVKPSGVHLKLVLRFSDFGKAMFKPMRQQRDEETPVDFFYFIDFQRHNAEIAAFHLDRILDFRRVPPTVGRIVNVTKEILEVTKNEILQSVFFVSPASNVCFKCPYMCKTEYAVCGKPHLLEGSLSAFLPSNLAPRLSVPNPWIRSYTL AGKEEWEVNPLYCDTVKQIYP YNNSQRLLNVIDMAIFDFLIGN MDRHHYEMFTKFGDDGFLIHL DNA\RGFGRHSH\DEIPILSLLSQ CGMIKKNTLLHLQLLAQADYR LS\DMRESLLEDQL\SPVLTEP HLLAL\DRRLQTLRTVEGCIV AHG\QQSVH*FDGPSGNSSGPR
22336	52704	A	22464	2	424	GRVGVSAVIVRAWITHKYSGRDWNVKWEENLLHAVAKNYTL LQTIPFERPFKDHQVCLEWNMGYIWNLRANRIPQCLEN/DFREDFHYNDTAGYFIIGGSRYVAGIEGFFGPLKYYRLRSLHPAQIFNP LLEKQLAEQIS
22337	52705	A	22465	23	323	
22338	52706	A	22466	3	287	LSVQMYAQAALDGDSQGFFNL ALLIEEGTYERCWSHSNEESFSPCSLAWLYLHLRLLWGAILHSA LIYFLGTFLLSILIAWTVQYFQSVSGKDL
22339	52707	A	22467	1	348	
22340	52708	A	22468	1	738	

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22341	52709	A	22469	1	507	
22342	52710	A	22470	187	3682	SILCLLSPCVVQFGKPVVSILSS RSRHSPCTKKGWEGMRKHLHT RQGHK*VHV\KFPSIMGLQGM DYFHPDISIFCNLAIVVRAWITH KYRGRDWNVKWEENLLHAVA K\NYTLLQTIPPFERPFKDHQVC LEWNMGYIWNLRANRIPQCPL ENDVVALLGFPYASSGENTGIV KKFPRFRNRELEATRRQRM DYP VFTVSLWLYLLHYCKANLCGIL YFVDSNEMYGTSPVFLTEEGYL HIQMHLVKGEDLA
22343	52711	A	22471	3	153	
22344	52712	A	22472	1	408	TEPEFPGRRFRPRMAVMAPIRT LVLLLSGALALTQTWAGSHSM RYFSTSVSRPGRGEPRFIAVGYV DDTQFVRFDSDAASQRMEPRA PWIEQEGPEYWDEETGKVKAH SQTRENLRALRYYNQSEAGS HTLFPR
22345	52713	A	22473	1	823	MAVVAPRTL L L L L LSGALALTQT WAGSHSMRYFSTSVSRPGSGEP RFSVAGYVDDTQFVRFDSDAA SQRMEPRAPWMEQEEPEYWDR QTEISKTN AQIDLESLR L RYY NQSED/GPPPKTHMTHHPISDHE ATLRCWALSFYPAEITLTWQRD GEDQTQDTEL VETRPAGDGT QKWASVVVPSGQEQRYTCHVQ HEGLPKPLTLR WEPSSQPTIPIV GILAGLVLF GAVIAGAVVA AV MWRRKSSDRKGGSY SQAASSD SAQGS D VSLTACKV



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22346	52714	A	22474	1	1162	NSRVDDFVAVMAPRTLALLLS GALALTQTWAGSHSMRD\FFTS VSRPGR*EPRFIAVGYVDDTQF VRFDSDAASQRMEPRAPWIEQ EGPEYWDQETRNMKA\HSQTD RENLRALPLTYNQSEAGSIHTL QMMFGCERGGSDGALSFRGLP PVTAY\DGKGFTFALNEIDLRS WTAADMAAQITQRKWETPPM WRS/EQEEAYLEG\QCV\DGRLR YLAENGKEDAAAQRTPPKTHMT HHPIS*P*RPL*RCW\AL\AFYPC GDHT*PWQRDG\EDQTQ\DTL VETRPAGDGTFAHKWAAVVVP SGEESEITPANVQQ*RVLPKPLT LKM/WEPSSPAHPSPIVGHLLA LVL/LLGAFDHLKLWVAAVML KEGTAQVGKG*KIEKGGSYSSR LPSQ
22347	52715	A	22475	9	316	IPAMGLETEKADVQLFMDDDS YSHHSGLEYADPEKFADSDQD RDPHRLNSHLK\ILMPFVKTCL MVLPSVQTIWKSVDVIIAPLCT SVGRCFSSVSLQLSQD
22348	52716	A	22476	3	606	RPRTKAAMGLETEKADVQLFM DDDSYSHHSGLEYADPEKFADS DQDRDPHRLNSHLKLGFE\DIVI AEPVTT\HSFDKVW\ICSHALFEI \SKYRMYSRLT\VF LGHSPWAFI CGEFSFATL\ASCLAH LGF*WPFV \KTCLM/VFLPSVQTIWEEC*QM V/ISLAPLC\TSVG\RCFLFLFSLA TEPRNGILGPQVWRLGYCNTSF VIIT
22349	52717	A	22477	101	432	ATRDQLKAKPENLLGSISRDSG RTQEGIPARVPYPPPP/PTRPPQ ST*PGRNLLGCLGGGAPRPG WLDSEAGGAPAFHCPG*CPRRH RRGGTRLKQLPPPPPTTVHDQPL
22350	52718	A	22478	794	1209	VKVDEVTVKHLGCQRCQWSRC PPSCSGTCLCCGAEAPCAAQPA WPPPPAAPPPTPPAPPSD\NSSCT Q*PTPRCGT*DKDKGIFTLPKGH P*V*SLEHGFLKLGSCP\PPPPHA LVRPPQVRFNTPHGAEPQRDQL PQST

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22351	52719	A	22479	3	1041	GSNCPLRQADPGPPRHTLFMDF VAGAIGGVCGVAVGYPLDTVK VRIQTEPKYTGIVHCVRDYHR ERVWGFYRGLSLPVCTVSLVSS VSFGTYRHCLAHCRLRYGNPD AKPTKADITLLGCGLRTRPRVP DVAH*GGQSPLADADTGFLSSS GGFRLSALLAAPPMPVPPACP EPKYRGPLHCLATVAQEGLC GLYKGSLALVLRDGHSAFYFL SYAVLCEWLSPAGHFRPDVPG VLVAGGCAGVLAWAVATPMD GIKSRLAENGQGGQ\NGYRGLLH CMVTSVREEGPRVLFKGLVLN CCRAFPVNMVVFVAYEAVLRL RPGSAHHSRSPTRGATHQQLV
22352	52720	A	22480	38	453	
22353	52721	A	22481	287	413	DMDYRRGGWTVIHRKIGGRID FQRVR*DYLHGYADLLREFWL
22354	52722	A	22482	1	393	MPKLLKWNIEGGACWGNLW KLPNVERLCFSEATVFRSAAQC LVVGLGLLLVSRAESHEDAIEW RGDSSVVNIVEDGSNAKDESKS NDTVCKEDCEESCDVKTKITRE EKHFMCIFHNQSLGTVCGEK GIDVN*NYTRRKTFFHVLPQCS VTGNSLRGERH
22355	52723	A	22483	505	854	
22356	52724	A	22484	584	1009	FTQKDLFIPFEVMCDMDYRGG GWTVIQKRIDGIIDFQRLWCDY LDGFGDLLGDAFL*FL*KEDNQ NAMPFSTSDVDNDGCRPACLV NGQSVKSCSHLHNKTGWFFN KCGLANLNGIHHFSGKLLATGI QWGTGNQKQLTWQE
22357	52725	A	22485	1	3123	MSHRARPCPAPFLFWMLGVKT EPAGQDRKKARSRCIFRVHA SGLWGLRFPSEVWGKPSRDKA QLSESPPQSVYLFAETALSAIVP GDGVAGGGGTGDGGPGAPYPG AVADMEELTIWEQHTATLSKD PRRGFGIAISGGRDRPGGSMVV SDVVPGGPAEGRLOTGDHIVM VNGVSMENATSAFAIQLKTCT KMANITVKRPRRIHLPATKASP SSPGRQDSDEDDGPQRVEEVD QGRGYDGDSSSGSGRSWD
22358	52726	A	22486	191	267	

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22359	52727	A	22487	2	609	PPPRSSDPKMAEVEHEEGSG PFRKFTLPAAVDL\DQ\RLDISY DQLEQPMQAVPVARPAAGGLN PGACGRKQVHSPA*KRLQGPS KGGAAPCHKPEAGEDATLRD\ MIILPEMWGSMVG VYH GKTF \NQVEDQGVCGRPCRLGWAGV A*CRRDQLTPSFALGLPQPEMI GHYLGFEFSITYKPVKHGRPGIG ATHSSRFIPLK
22360	52728	A	22488	3	461	STISLYCGLKTCPLTCAFPVSV PDSCCRVCRGDGELSWEHSDG DFFRQPATREASHSCHRSYDP PPSRQAGGLSRFPGARSHRGAL MDSQQASGTIVRFVLNNKHKH GQVCVSNGR TYSHGESWHPNL RAFGIVECVLCTPTPID\WPQGD *GKCRHGCPTLHYVD*LPLEKQ VILATALTMILHQADRLEVCPA FLGPEVTGELLWIPSKHQEPLC DLSSITNTSMDCVFPMEGPIL MASPGTQTSGLLALWSVCYVL PPPSIVPQGD
22361	52729	A	22489	656	1495	TGDGELSWEHSDGDIFRQPANR EARHSYHRSHYDPPPSRQAGGL SRFPGARSHRGALMDSQQASG TIVQIVINNKKHKGQVCVSNGK TYSHGESWHPNLRAFGIVECVL CTCNVTKQECKKIHCNRYPC YPQKIDGKC*QNSTCFLIPEELP GQSF DNKGYFCGEETMPVYES VFMEDGETTRKIALETERPPQVI CSTFCLA\QGILQHFHIEKISKR MFEELPHGHFAFVCLLGQWKIF TEGEAQISQMCSSRVCRTELED LVKVLYLERSEKGHC
22362	52730	A	22490	1	477	
22363	52731	A	22491	1	294	
22364	52732	A	22492	56	4042	VFFTS MGEHLQKLIPASPACLA* IPQACQP*PPTPAWQCRNLR/L AASRHQEP RGEVGGPLGHGAE RILAVPVRTDAQGRLVSHV VSA ATSRAGVRARRAAPVRTPSFPG GNEE EPGSHLFYNVTVFGRDLH LRLRPNARLVAPGATMEWQGE KGTTRVEPLLGSCLYVG DVAG LAEASSVALSNC DGLAGLIRME EEEF FIEPLEKGLAAQEA EQGR VHV VYRRPPTSPPLGGPQALDT GASLDSLDSL SRAL

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22365	52733	A	22493	173	1148	QALGLPSLLAVLALSTTDRAF SAVISRSPQRTVSSTRKEQRPLV FAFSALRLGTNACKMDGFCSTF LGAPGIRLKLTPAGTHKSERD RTATPTRHHEKRLFCSSLSIGRQ AEEAWRADHPLPESRLFGLVPL GGAAWCRLAGSFCVCSLRLPRP IELVRAASGALLGAVRRRNHGP PHCFSTATLLCKAYRGGHLTIR LALGAGPNRPFYRIVAAQNKC PRDGPFP*SKLGPPYPDP/LLPPNS HGEKTPCPLNLDRIHWHWIGCG APLLSPMEKLLGLAGFFPLHP\
22366	52734	A	22494	2	4985	MMITNAERLRRKRAREVLLAS QKTDAEATDTEATET
22367	52735	A	22495	18	174	AGATTALELPGQPSVTGVPPEL GLPSATRALELSGQPVATGALE LPGPLMAAGALEFSGQSGAAG ALELLGQPLATGVLELPGQPGA PELPGQPVATVALEISVQSVVT TSELSTMTVSQSLEVPSTTALES YN/DERSMMSSYERSMMSYER SMMSPMAERSMMSAYERSMM SAYERSMMSPMAERSMMSAYE RSMMSAYERSMMSPMADRSM MSMGADRSMSSYSAADRSM MSSYSAADRSMSSYTADRSM
22368	52736	A	22496	3	595	ALIKKHFI*IAAAKPTPPKSQV TLTKEFPVSSGSQHRKKEADSV YGEWVL
						IKKHFI*IAAAKPTPPKSQVTLT KEFPVSISGPQHRKKEADSVYG EWVPVEKNGEENKDDDNVFSS NLPSEVSRRNIMYFSFFIPESAH FIVMLCLIWDSVSLFLRAGVKR QGRV*DGQM\KQPAASH\LTVT RM/CNSLCG\TKATKWRLRFA ENSVITSLPNIGPSLHLWEGSP WYSIPFSFPSLLLLKVGEVEFKR

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22369	52737	A	22497	3	5618	SSELPGPSVTPVPQLSQELPGLP APSMGLEPPQEVPPEPPVMAQEL PGLPLVTA AVELPEQPAVTVA MELTEQPVT TTELEQPVGM TTV EHPGHPEVTTATGLLGQPEATM VLELPGQPVATTALELPGQPSV TGVPELPGLPSATRALELSGQP VATGALELPGLMAAGALEFS GQSGAAGALELLGQPLATGVL ELPGQPGAPELPGQPVATVALE ISVQSVTTSELSTMTVSQSLEV PSTTALESYNTVAQ
22370	52738	A	22498	1	4685	MAPESHILASNTMETHILASNT MDSQMLASNTMDSQMLASNT MDSQMLASSTMDSQMLATSSM DSQMLASNTMDSQMLASNTM DSQMLASSTMDSQMLATSSMD SQMLATSSMDSQMLATSTMD QMLATSSMDSQMLATSSMDSQ MLATSSMDSQMLATSSMDSQ LATSTMDSQMLATSTMDSQML ATSSMDSQMLASGTMDSQMLA SGTMDAQMLASGTMDAQMLA SSTQDSAMLGSKSPDPYRLAQD PYRL
22371	52739	A	22499	291	7655	KRAPEKVDA YLYKQILLMKLP TKKSKKKKKHKNKKKKKKKE KEKKYKRQPEESES TKSHDD GNIDLESDFS LKFDSEPSA VALE LPTRAFGPSETNESPAVVLEPPV VSMEVSEPHILETLKPATKTAE LSVVSTSVISEQSEQSVAVMPEP SMTKILDSFAAAPVPTTTLVLK SSEPVTMSVEYQMKSVLKSV ESTSPEPSKIMLVEPPVAKVLEP SETLVVSSETPTEVYPEPSTSTT MDFPESSAIEALR

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22372	52740	A	22500	90	2166	SQHFGRLRRVDYLRYSKMQTSS SRSVHLSEWQKNYFAITSGICT GPKADAYRAQILRIQYAWANS EISQVCATKLFKKYAEKYSIID SDNVESGLNNYAENILTAGSQ QTDSDKWQSGLSINNVFKMSS VQKMMQAGKKFKDLSLEPALA SVVIHKEATVFDLPKFSVCGSS QESDLSLPNSAHDRDRTQDFPES NRLKLLQNAQPPMVTNTARTC PTFSAPVGESATAKFHVTPFLFG NVKKENHSSAKENIGLNVFLSN QSCFPAACENPQRKSFGSGTI DALSNPILNKACSKTEDNGPKE DSSLPTFKTAKEQLWVDQKKK YHQPQRASGSSYGGVKKSLGA SRSRGILGKFVPIPKQDGGEQN GGMQCKPYGAGPTEPAHPVDE RLKNLEPKMIELIMNEIMDHGP PVNWEDIAGVEFAKATIKEIVV WPMLRPDIFTGLRPPKGILLFG PPGTGKTLIGKCIASQSGATFFSI SASSLTSKWVGECEKMVRALF AVARCQQPAVIFIDEIDSLLSQR GDGEHESSRIKTEFLVQLDGA TTSSDRILVVGATNRPQEIDEA ARRRLVKRLYIPLPEASARKQI VINLMSKEQCCLSEEEIEQIVQQ SDAFSGADMTQLCREASLGPI AV/SQTADIATITPDQVRPIAYID FENAFITVRPIVSPKDL*LYENW
22373	52741	A	22501	3	523	FFFFPAFKMSKRGIRGWVPSG CRKFPDFPLGLPVGTL*SNWCL TNTGAQKTLYINSREGGIKGTG LTRLPRLPVGVDMMVMAHSSRK ANPELQKKGYIPA\VVIRQRKVI TVGKRWRCFFIFEDNAGVIGD\NKG\EMKGFAITGPRAKECAD LWPRDCIQMLGSIAWFSQYIL

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22374	52742	A	22502	3	946	GPSASVSFWLWSQQHSPRIRHP RPGERRRLLHGIPHPTAEKQPA PLRPERRGGRRRRPAGRRGCA* /GGARPCSSRSS*PASTPAPRAA PPCRSPCSARPTGPRTGAGRPR AP/HDGPPCATPDPRDQASVLP RGPRPRVAPGSP\PEGHPRELPS EGSPGPRAPGQRHVRPPRAVLR PRGLRGGGCPGAHPAPRLQRR RAPGEAAAPGPRWPGRGRGR AQALVPAARSRCFWKLWEA\VF CLPVAAAPTRRFGARQRPQLW LHGHKGGQVGEVSSHSAAGEEH LVPHAAPKRAREPHGRSGSPGG IASSWQDGS
22375	52743	A	22503	34	823	
22376	52744	A	22504	424	2339	LLRGTLQSYAWTSVIPDIATELR DAPEKTLACMGLAIHQVTICLM HTFV*TFLMFAHTCTPCLTMVN VPHIHAR*GI*CIKVLLRMGH*R PFKNENAHRTVVRVSNIKPLC TKMAFLCAACGEIQSFPLPDGK YSLPTKVIRSLTASLFILVKKAN QNTENISRQSIK*AIRLLHKRQA LDVTLLRKSILLHDLVDSCVPG DVTITGIVKVSNAEEGRVQLF SLFVSQ**FINVHLF*DAPPHILV VGDPGLGKSQMLQVDNQSFV CSFACKMR**FTSEFSPLSKDSS SGDFALEAGALVLGDQGERPK GIISDSGTF*KAFSFSVNFLSISL AKAGVVCSLPARTSIIAAANPV GGHYNKAKTVSENLK*VSSNIY TFNVLNHFNSIRKRNSSHLLSEH VIAIRAGKQRTISSATVARMNS QDSNTSVLEVSEKPLSERLKV *MFLLLIQFGSV*MSKFVWLIV DVYPRLSTEARVLQDFYLELR KQSQRNLNSSPITTRQLESLIRLTE VCFFLWSCFFWLKGECCALTSL LKYP*DKNFKLF*MKYQLSSHL KLGNRPNRSTAKRFISALNNVA ERTYNNIFQFHQLRQIAKELNIQ VADFENFIGSLND\QGYLLKKG PKVYQLQTM
22377	52745	A	22505	73	214	
22378	52746	A	22506	1	503	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence ( X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22379	52747	A	22507	3	1000	ESKLEGKAAQDIKDEEPGDLGR PKPECEGYDPNALYCICRQPHN NRFMICCDRCEEWFHGDVCGIS EARGRLERNGEDYICPNCTIL QVQDETHSETADQQEAKWRPG DADGTDCTSIGTIEQKSSDQGI KGRIEKAANPSGKKKLIKIFQPG PGPVPTQLPVLWQVLEIAVSRSI SAFTLLHCISCKVIEAPGASKCI GPG\CCHVAQPDVSVYC\SNDCIL KHAA\ATMKFLSSGKEQKPKPK EKM KMKPEKPSLPKCGAQAGI KISSVHKRPAPEKKETT VKKAV VVPARSEALGKEAACESSTP\S WAS\DHNYNA\VKPEKTAAPSP VTVV
22380	52748	A	22508	1	2330	MAAAEGKERAGGRASGRGRSE PPRPGARASDAGPGLREVEGT GEHSVVAAGTVPRVGVGAAAR GEERRAGLGECGPGLGGCVAG LISGKSVQAFSVGAGRWP LLRV FGGNVTFCVSVWSLCA YTLPL GMDDKGDPSNEEAPKAIKPTSK EFRKTWGFRRTTIAKREGAGD AEADPLEPPPPQQQLGLSLRRS GRQPKRTERVEQFLTIARRRGR RSMPVSLEDSGEPTSCPATDAE TASEGSVESASETRSGPQSASTA VKERPASSEKVKGGDDHDDTS DSDSDGLTLKELQNLRLRRKREQ EPTERPLKGIQSRLRKKRREEGP AETVGSEASDTVEGVLP SKQEP ENDQGVVSQAGKDDRESKLEG KAAQDIKDEEPGD\LRPKPEC EGYDPNALYCICRQPHNNRFMI CCDRCEEWFHGDVCGISEARG RLERNGEDYICPNCTILQVQD ETHSETADQQEA*MGDLGDA\D GTDFTSIGNIRSRSLRRPKGLK GRIEKAANPSGKKELKIFQPV L EIAVSRSISAFTLLHCISCKVIEA PGASKCIGPGCCHVAQPDVSVYC SNDCILKHAAATMKFLSSGKEQ KPKPK EKMKMKPEKPSLPKCG AQPVQWLLLLSSWQLGTSSGL QVTLCQPPFTEHKWLKFSVLHG ETAGPPRAHRIRKLNKYWGAC HHCMP LRPLCLPGWPRSSPSL



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22381	52749	A	22509	149	2001	IQPPDPRNMTLAAAYKEKMKELP LVSLFCSCFLADPLNKSSYKYE\ AGVGDSVGGRMKASGKTVLT GRERRAQADTV\DLNWCVISD MEVIELNKCTSGQSFEVILKPPS FDGVPEFNASLPRRRDPSLEEIQ KKLEAAEERRKRGPDLVIYEIH SPASLPFHSSDASVLGDIPPTY SNISNSNQELLMGGSPAPEQP HYEANILERSETTSYDNGSDAA QSFKVDGRCVFYINIPISNEGK VLWKAPEIATAKEPTWSPLGST GPRPCQILVVKSPVVHGKGPVL SGCGLDLLEQPTFALCFLVAGA VTITFLSCSGEEAREESAPKAMS ERQARRGGAEKQGAEGRGLQA VTTPELPYRMGLGA AFLKERS GVLPGSFICEDFTAALKQDEEIG TMKGKIREAYFKSFVPTPVAFS GGVMLPTGGTLEMCGNNFGGH KEQAGTVLPFAFIALRVTPSAS LVLRLPLNDQAMLQGSGLQL ADGLFWDLASIMDWTASRIQPS VSSSMKICQAFPRPLAILLAQC AYVYGTWMKLEAIIITKLTQE QKTKHHLFSLPCCMPADISYRQ RCLGEPHCTVWNRHLESLVM MSNSTTSPCELLIFEVPPVAPE
22382	52750	A	22510	373	990	IQPPDPRNMTLAAAYKEKMKELP LVSLFCSCFLADPLNKSSYKYE ADTVDLNWCVIFRHWKVIELN KCT/SGANSFEVILKPPSFDGVP EFNASLPRRARPIPWEEIPVRKL GRRLRERREVTREADP*KQLAE KRIEHEERGDSKRAFRETTTFIK MAK/EKNLAQKMESNRENREA HLAAMLERLQEK\DKHAEVR KNKELKEEASR
22383	52751	A	22511	524	1107	LCSPKVLGLNASCQKNFLKQK KSIKTLSTSQ/YSVSGYSLARSE NAHPEFRMAMKD GELVIWDSV HPCYTVFHEQTETFSSLWSEYH DDFRQFLHIYSQDVACYGENLA YFPKGFIENMFFVSANPWVSFT SFDLNVANMDNFFAPVFTMGK YYTQGDKVLMP LAIQVHHAVC DGFHVGRMLNELQQYCDEWQ
22384	52752	A	22512	1	1413	
22385	52753	B	22513	1	2787	
22386	52754	A	22514	1	1638	

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22387	52755	A	22515	71	2421	YTVCYFLQAAEEDETQNQHDD SSSDSGTPSGPDFNYILNMSLW SLTKEKVEELIKQRDAKGRE\V NDLKRK\SPSDLWKEDLAGIC WRDWDKV/ENSPRNEEDVLAG MSGKSNLKGKVGKPKVKKLQ LEETMPSPYGRRIPEITAMKAD ASKKLLKKK/KGVDLDTAAVK\ VEFDEEFSGAP\VEGAGEEGIDS HQFPINK\GPK\PRREKKEPGSR VRKTPTSSGKPSAKK-VKKRNP WSDDESKSESLEETEPVVIPR DSLLRRAADHRLGGEGFDAGL TVFAPLFASPFPPRGAPYLKAA CQTPRSGIGATAISGEALKGAV SSGVDPRWASHLRVKLLEKSFS LQEIQSTEKVLSSQAKTSLG EPKLSKQLTGTCIYRKTNLALC RGPAAAKSLFQGA VRNDRNKK KKETSKQECTESYEMTAELDDL TEKIRKAHQETFPSCQLGKYT TSLQKGMQRCQILDSSVRPIV DVRPPELQDSKLVLVQAACCA PLADHCSKPVLLKEGPEDQKD QHDVGDCWNPECQTLFDQNN AAKKEESETANKNDSSKKLSVE RVYHIKTQLEHILLRPDTYIGSV EPLSKVAEEGPAAVGGWKGWF GTESRKDPKPTGTEEVERGVW LSGREGRLSPSVVTTMVLAEN SAIRFVGGKPSSDTVPKPKRAP KQKKVVEAVNSDSDSEFGIPKK
22388	52756	A	22516	1424	4860	GRDRYGVFPLRGKILNVREASH KQIMENAEINNIKIVGLQYKKS YDDAESLKTLYGKIMIMTDQ DQDGSHIKGLLNFIIHNNWPSLL KHGFLEEFITPIVKASKNKQELS FYSIPEFDEWKKHIENQKAWKI KYYKGLGTSTAKEAKEYFA\D MERHRILFRYAGPEDDAAITLA FSKKKIDDRKEWLTNFMEDRR QRLHGLPEQFLYGTATKHLTY NDFINKELILFSNSD NERSIPSLV DGFKPGQRKV
22389	52757	A	22517	87	292	
22390	52758	A	22518	1	903	
22391	52759	A	22519	3	311	

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22392	52760	A	22520	1	1087	MPSAAWKRPVEGPATLRRPLGI AAASQCPSSQPGCLIGAVNLK SSNRTPVVQEFESVELSCIITDS QTSDPRIEWKKIQDEQTTYVFF DNKIQGDLAGRAEILGKTSKI WNVTRRDSALYRCEVVARNDR KEIDEIAIEVTIVQVKPVTPVCR VPKAVPVGKMATLHCQGE*GP PPA\HYSWYRNDVPLPTDSRAN PRFRNSSFHLNSETGTLVFTAV HKDDSGQYYCIASNDAGSARC EEQEMEVCHTDKRGGFPWSW AAPHLWFLQDTALLPAALTGW CSVSVAFPGAQCKLSVDLSFWG LEDGGPLLTAPLGSTPVGTLCR GSDPTFPFCTALADDLYESPTPA ANFCLDIQAFSYIL
22393	52761	A	22521	628	1117	FFISVINGQVSSVQRLSGVGPAC LSCGSANPGPPGTSPGAGAQR R*\PRADGSGSPQWPRGARVGG GRLGTGGRGRPGWRQVPRRLS PGFGR*GGTGPVPGTSGKRGP SRRRAPANDKAACWPRFPGQP AS*TGFRGERGVKGFSSWGS WRAWEDGGTVH
22394	52762	A	22522	2	238	
22395	52763	A	22523	131	2891	
22396	52764	A	22524	131	3103	LVSFLLFQDALPEGDASPLGPY LLPSGAPERGSPGKEHPEERVV TAPPSSQSAEVLGELVLDGTA PSAHHDIPALSPLLPEEARPKHA LPPKKKLPSLKQVNSARKQLRP KATSAATVQRAGSQPASQGLD LLSSSTEKPGPPGDPPIVASEE ASEVPLWLDRKESA VPTTPAPL QISPFTSQPYVAHTLPQRPEPGE PGPDMAQEAPQEDTSPMALMD KGENELTGSASEESQETTTSTIIT TTVITTEQAP

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22397	52765	A	22525	474	2527	SASPLGPYLLPSGAPERGSPGKE HPEERVVTAPPSSSSQSAEVLGE LVLDGTAPSAHHDIPALSPLLPE EARPKHALPPKKKLPSLKQVNS ARKQLRPKATSAATVQRAGSQ PASQGLDLLSSSTEKPGPPGDPD PIVASEEASEVPLWDRKESAV PTTPAPLQISPFTSQPYVAHTLP QRPEPGEPPGDMAQEAPQEDTS PMALMDKGENELTGSASEESQ ETTTSTIITTTVITTEQAPGMQPP TPMGEGPPIVKHTWILDKCNVA TLQST*ALGPNEGYIDSSDYPLL PLNNFLECTYNVTVYTG YGVE LQVTPGEYPDGELLIRGVDGP TLTVLANQTLLVEGQVIRSPTN TISVYFRTFQDDGLGTFQLHYQ GRVRPRLFRRPDSGDVTVM DL HSGGVAHFHCHLGYELQGAK MLTCINASKPHWSSQEPICSGM LQPQPHNATIGRVLSPSY PENT NGSQFCIWTIEAPEGQKLHLHF ERLLLHDKDR*SSEGPQTNKSA LLYDSLQTESVPFEGLLSEGNTI RIEFTSDQARAASTFNIRFEGEG PWELYEPYIQNGNFTTSDPTYN I GTIVEFTCDPGHSLEQGP AIIECI NVRDPYWNDEPLCRGERIHN ASAVAGVVLSPNWPEPYVEGE DCIWKIHVGEERKIFLDIQ/FVS V*NGSVFSQEKVRPTPEWW
22398	52766	A	22526	131	3125	LVSFLLFQDALPEGDASPLGPY LLPSGAPERGSPGKEHPEERVV TAPPSSSSQSAEVLGELVLDGTA PSAHHDIPALSPLLPEEARPKHA LPPKKKLPSLKQVNSARKQLRP KATSAATVQRAGSQPASQGLD LLSSSTEKPGPPGDPDIVASEE ASEVPLWDRKESAVPTTPAPL QISPFTSQPYVAHTLPQRPEPGE PGPDMAQEAPQEDTSPMALMD KGENELTGSASEESQETTTSTIIT TTVITTEQAP
22399	52767	C	22527	161	352	
22400	52768	A	22528	2	368	LGSTHASVRINILSVDVLYFIFY RRDDNKDIDSEKEAAMEAEIKA ARERAIVPLEARMKQFKDMLL ERGVKQSLGEIFLCISNINMS C*KVKSKVSAFSTWEKELHKIV FDPYRLLNLI

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22401	52769	A	22529	2	614	KDHRWESGSLLEREEKEKLFNE HIEALTKKKREHFRQLLEDTSAL TLTSTWKEVKKKIKEDPRCIKFS SSDRKKQREFEEYIRDKYITAK ADFRTLKTKFITYS*FSERCE SESL*KMLGLAAPQTEVLCSS E\RSKKLIQESDQHLKDVEKILQ NDKRYLVLDVPEERRKLIVAY VDDLDRRGPPPPPTASEPTRRST
22402	52770	B	22530	201	296	
22403	52771	B	22531	1	1290	
22404	52772	A	22532	3	3369	SSSVMAERGGVGGESERFNPGE \LRMAQQQALRFRGPAPPPNA AMRGPPPLMRPPPPFGMMRGPP PPRPPFGRPPFDPMPPMPPPG GIPPPMGPPHLQRPPFMPPPMSS MPPPPGMMFPFGMPVTPAGTP ALPPTEEIWVENKTPDGKVYYY NARTRESAWTKPDGVKVIQQS ELTPMLAAQAQVQAQAQAQA QAQAQAQAQAQAQAQAQAQA QAQAQAQAQAQAQAQAQAQA QAQAQAQAQAQVQAQVQA
22405	52773	A	22533	43	347	
22406	52774	A	22534	1	1776	
22407	52775	A	22535	3	433	PLAPNHLGGGAVVLGAESHAS KDVAIDMMDSRTSQQQLIDE QDSYIQSRADTMQNIESTIVELG SIFQQLAHMVKEQEETIQR*DR VNSAHPWDPVHLLPSTQQVFIE HLFM
22408	52776	A	22536	304	1403	SRGNATGLRTRIRVSTWVSQRH RSCPLQLLAVAAATSSPLPPV LVPPPPDTMSCRDRTEFLSAC KFAARPVKNG\QTN*GQLLRW LVRQRSEIHPSLAKRHLGKDL NTFAKLEKLTLAKR\KPLFDDK AGEIEELTYIHKQDINSLIKQIAQ LQ\DFVRAKG\SQSGRHLQTHS NTIV\VSLQSKL\ASMSNDFKSV L\EVDRDGTLLKQ\QREPEERQFS RAPV\ALPLSPTHRAGGA\VL GAESHASKDV\AIDMMDSRTS QQQLIDEQDSYIQSRADTMQN IESTIV\ELGSIFQQLAHMVKEQ/ ERETIQRIDENVLGAQLDVEAA HSEILKYFQSVTSNRWLMKIF LILIVFFIIFVVFLA
22409	52777	B	22537	147	506	

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22410	52778	A	22538	2	1397	AAPGNGLSPSSWRSELACEFQH ECTAEVRFGAVVCRGARSHSFY LEREILQ/PPGMSL/PENPVTPL RHLMYKIKSTGPITVAEYMKEV LTNPAKGYVYVRDMLGEKGDF ITSPEISQIFGELLGIWFISEWMA TGKSTAFQLVELGPGRGTLVGD ILRVFTQLGSVLKNCDISVHLVE VSQKLSEIQALTLTKEKVPLER NAGSPVYMKGVTKSGIPISW*S RICTD\VPKGYSFYLAHEF\LDV LPVHKFQKTPQGWRVFDIDP QVSDKLRFLAPSATPAEAFIQ HDETRDHVEVCPDAGVHIEELS QRIALTGGAALVADYGHGDTK TDTFRGFCDHKLHDVLIAPGVT ADLTADVDFSYLRRMAQGKVA SLGPIKQHTFLKNMGIDVR/L*R FF*INQMRPSVRQQLQGYDML MNPKKMGERFNFFALLPHQRL QGGRYQRNARQSKPFASVVAG FSELAWQ
22411	52779	A	22539	2	377	
22412	52780	A	22540	2	1427	
22413	52781	A	22541	2	568	CSSPSN/TILGVQKLNSQWRLA QDFRLINEAVIPLYPVVPPNPYTL LSQIPEEAESFTVLDLKDAFFCIP LHSDSQFLFAFEDPTDHNSQLT WMVLPQGFRDSPHLFGQAQAAQ DLVHFSSPGTLVVQYMDDL ATSEASCQATLDLLNFLANQ GCKRVGIALGVLTQTHGTPQP VAYLSKETDVAAK

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22414	52782	A	22542	1	1230	GPRGTGPKGKARSEKGC SL SHG PQTNKPLVVQKGQKMEQANHP VGLVISVVYKDILKKIVQRETS HPLIHVRYAEAITGRRTAPEDK GSLGRDMLAKAGAIYMNMGN KLPIWCHLLEEGIYLEVWALEG QFGRAKNACPVQIRLKDPTTFP YQRQYPLRPEAHKGLQDIVKH VKAQGLVKKCSSPCNTPI LGVQ KPNGQWSLVQDLRLISEAVIPL YPVVPNPYTLT SQIPEEA E WFP VLDLKD AFFCIPLHYDSHDSQF LFAFEDPTDHTSQLIWTVLPQG FRDSPHLFGQALAQDLGHFSSP GTLVLQYVDDLLLATSSEASCQ QATLDLLNFLANQGYKASRSK AQLCLQQVKYLGLILARGTRTL GKERIQPILAYPHPKTLKQLWG FLQIT/GFCQLWIPR*SKI
22415	52783	A	22543	1	211	
22416	52784	A	22544	1	472	
22417	52785	A	22545	1	393	
22418	52786	A	22546	59	411	SWPSDKQTLVVQRGQKMEQA NHPDPTDHMSQLMWT/VLPQG FRDSPHLFGQALAQDLGHFSSP GTLVLQYVDDLLLATSSEASCQ QATLALLNFLANQGYK/LSRSK AQLCLQQVKYLCL
22419	52787	A	22547	43	236	TSSLRKEDSAPSQGKSVVFTL TSQG*VPLWRTLQLQGPFFTPSS RK*LELSSANSQQHLGCPV
22420	52788	A	22548	1	1446	
22421	52789	A	22549	1	1521	
22422	52790	A	22550	2	689	
22423	52791	A	22551	1	64	
22424	52792	A	22552	636	1586	SNDRTEDDCGKHPFMSSPPATEP WVCLIIEGQEIDFLDTGTTFSV LIPCLGR LSSRSVTIQGILGQPVT RYFSHLLSCNWETLLF SHAFLV MPESPTPLLGRDILAKAGAIISM KTGNKLPICPLLEGINPEVWA LEGQFGRAKNAHPLQIRLKDPI SFPYQRQYPLRPEAHKGLQDIV KHLKAQDSVRKCSSPCNTPI LG VQKLNSQWRLVQDLRLINEAVI PLYPVVRNPYTLT SQVPEEA E W FTVLDLKD AFFCIPLHSDSQFLF AFEDPTDHTSQLMWMVLPQRF RDSPHLFGQAQAQDLGHFSSPG

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22425	52793	A	22553	292	1493	SNDRTEDDCGKHPFMSSPP/TEP WVCLIIEGQEIDFLLDTGTTFSV LIPCLGRLSSRSVTIQIGLGQPV RYFSHLLSCNWETLLFSHAFLV MPESPTPLLGRDILAKAGAIISM KTGNKLPICCPLEGINPEVWA LEGQFGRAKNAHPLQIRLKDPI SFPYQRQYPLRPEAHKGLQDIV KHLKAQDSVRKCSSPCNTPILG VQKLNSQWRLVQDLRLINEAVI PLYPVVRNPYTLLSQVPPEAEW FTVLDLKDAFFCIPLHSDSQFLF AFEDPTDHTSQLMWMVLPQRF RDSPLHFGQAQAQDLGHFSSPG TLVLQYSEIAKTLYTLIKEMER ANTHLVEWEPEAETAfetLKQ ALVQAPALSLPTGQNFALYVIE RAGIALGVLTQTHTTPQPVAY
22426	52794	A	22554	2	307	
22427	52795	A	22555	3	400	
22428	52796	A	22556	2	78	
22429	52797	A	22557	395	1336	SNNRTEGASSCHPLTEPQVCLT IEGQEIDFLLDTGTAFSVLISCPA WGTGQDSVSKKNEKKRKEKA KGNHQANAEAKIAARWNPSLE IPTEGPLVWNNPLQEIKPQYSLT ETEWGLSQGHSFLPLGWLMT EVKVLIPASQWKILKTLHQTF QMGIENTQQMAKSFTGPNLL WTIRHVVKACEVCQRNNPLVH HKAPLGEQRIGHYPGEDWQLD FTHMPKSKGFQYLLVCVDTFT NWIEAFPCKIEKAQEVNKLVIH ETIPRFGLPQSLQSDNDPAFKA MITQGIFQGAKDTISPSLCLEATI LREGREGN
22430	52798	A	22558	244	638	GPLNPTFLGPPCGLGGKLVFLL LRQ*VQLFRSAGSRDRCGFLDR ERNKTNQNCGKQAKKSPKDHK NPRAVGYPFNL*QEGNLAQP GYMSPSPSLI*SRSRQTWGSFQ MILIGTKRNRPKRKSEIRERLQP
22431	52799	A	22559	210	600	RGKRTWRERRNGWSRGFCPLP LTGSWLISRESPRLACLGEGLG VPGM*DLPHAWPTTLMCPVLV GSWSH*LQE*SHGPSQ*VLQLL RWCVWSLFLLMFGCVWSFFLL VSSWSRWLRSEATDLCGECYSS



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22432	52800	A	22560	2746	5211	ETSCPLVRVHYAEAITGRCTAP EDEGSLGQKPPARRSNNRTEGA WGKRQLMSSP/STEPVCLTIEG QEIDFLDGTGAAFSVLISCPGRL SSTSVTIQILGQPVTRYFSHLL SCNWETLLFSHAFLMPERPTG LLGRDILAKAGAIYMNMGNKL PICCPALLVEGINPEVWALEGQF GRAKNARPLQIRLKDPTTFPYQ RQYPLRPEAHKGLQDIVKHVK AAGLVKKCSSPCNTPI LGVQKP NGQWSLVQDLRLISEAVIPLY VVPNPYTLLSQIPEEAEWSWAL TFKDAFFCIPLHSDSQFLAFED PTDHTSQLTGTVLPQGFRDSPH LFGQALAQDLGHFSNPGTLVLQ YVDDLLLATSSEASCEQATPDL LNFLTNNQGYKVSRLKAQLCLQ EVKYLGLILARGTRALSKE*IQP ILAYPHPKTLKQLRGFLEITGFC *LWIPGYSKIARPLYTLIKETQR ANTHLVEWEPEAETTFKTLKQ ALVQAPALSPTGQNFSLYVRE RARIAGVLTQTHGTPQPVAY LSKEIDVVAKGWPHCLRVVAA VAVLASEAIKIIQGDLTV*TTY DVNGILGAKGSLWLSDNCLLR YQALLLEGPVLQICTCMALNPA TFLPEDGEPIKHDCQIIVQTYA ARDDLLEVPLTNPDLNLYTDGS SFVENGI/RKVSDVTILESKPLPP G TSAQLAELVALTWALELGKG
22433	52801	A	22561	903	4440	DHPGHIHSSPCHERPNNVSTLPF LPGEQHPILLPPRNC PGDKILEE NFRYNNYKRTMMSFKERLENT VERCAHINGNRPRQSRGFGELL STAKQDLVLEEQSPSSSNSLENS LVKDYIHYNGDFNAKSVNGCV PSPSDAKSISSEDDL RNPDPSPS NELIHYRPRTFNVGDLVWGQIK GLTSWPGKLVREDDVHNSCQQ SPEEGKVEPEKLTLEGLEAY SRVRKRNRNGIKVPPRSPRSTIG SPRPSMPSSPS
22434	52802	A	22562	1	501	

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22435	52803	A	22563	1688	2038	SATHGLSDSCYWLVVSRAIGRN NLSPASPASIIHALVFLAEPQLF QPRILGLIDEESGHEGGRPAAKT RKLSGPWSRPAAFMSTLLINQP QYAWLKELGLREENEGVYNGS WGGRGEVITTYCPANNEPIARV RQA\SVADYEETVKKAREAWKI WADIPAPKPKKELVRQIG\DAL REEDSKLLRKPWCPLEDWGKIL LEGVGEVQEYVDICDYAVGLS RMIGGPILPSERSGHALIEQWNP VGLVGIIITAFNFPVAVYGWNN AIAMICGNVCLWKGAPTTSLIS VAVTKIIAKVLE\DNK\LPGAICS LTCGGADIGTAMAKDERVNLL SFTGSTQVGKQVGLMVQERFG\ RHYQNWRSLLLELGGNNAIIAFE DADLSLVVPSALFACCGEQLGQ RCTT\SRGRLFYYMESIHDEVFK QTLKRAYGTRS RVG\NPW\DPN VLYGAISHQGRQLSMFLGAVEE AKKERLAQWVYGGKVM DRPG N\YVEPTNVTSLDHDASIAHTE TFAP\ILYVFK\FKNEEEVFAWE* WK*NRGLSS*HSLPKDLGAESF RWLGP\KGTQTCG\VKCQPFPT KWGLRLGGA\FGGEKAHLVVA RESGQ*C/WGKQYMRKVYLVL FNYS\KDLPSPGPQG\IKFQ
22436	52804	B	22564	1	1434	
22437	52805	B	22565	1	1185	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22438	52806	A	22566	1	2450	GQACHASSSPLKGSRGSPPNFEI LYGPIFEDSLAPD*PKVIAGQMIT LRDAVTGPISSPNEAGKIYQLKP NPAVLICRVRGLHLPEKHVTW RGEAIPGSLDFALYFFHNYQA LLAKGSGPYFYLPKTQSWQEA AWWSEVFSYAEDRFNLPRGTIK ATLLIETLPVFMDEILHALR DHIVGLNCGRWDYIFS YIKTLK NYPDRVLPDRQAVTMDKPFLN AYSRLLIKTKHRGAFAMGGM AAFIPSKDEEHNNQVLNKVKA DKSLEANNNGHDGTWIAHPGLA DTAMAVFNDILGSRKNQLEVM REQHAPITADQLLAPCDGERTE RKFNALMESEKGQSQNLWKFA VYSGLRHGELAALAWEDVDLE KGIVNVRRLTILDMFGPPKTN AGIRTVTLLQPALEALKEQYKL TGHHRKSEITFYHREYGRTEKQ KLHFVFMPRVCNGKQKPYYSV SSLGARWNAAVKRAGIRRRNP YHTRHTFACWLLTAGANPAFIA SQMGHETAQMVEIYGMWID DMSDEQIAMLNARVMVYDVA SGNALFISELGPLPENVTWLSPE GEFQKWNGTAWVKDTEAEKL FRIREAEETKNNLMQVASEHIA PLQDAADLEIATEEEISLLEAW KKYRSIPLCSKVVTMMFDDRP GCPVGFPMWGRGGFDRMPPG WGGRPMPPSRDRMSPHRGPPPP
22439	52807	A	22567	1	941	MIPNVQGPMPRGLEGPNIYFIKIS KNRRYTMAVTSVGLASSLCRV VRPCRAPAGVVSRRGSPDDEWL FCPQARIQQQDID/NGTLPDFIS ETASIRDA/DWKIRGIPADLEDR RV/EITGPVERKMVINALNAIF MADFEDSLAPDW/NKVIDGQIN LRDAVNG/TISYTNEAGKIYQL KPN/PAVLICRVRGLHLPEKH/V TWRGEAIPGSLFDLA/LYFFHNY QALLAKGSGP/YFYLPKTQSWQ EAAWWS/EVFSYAEDRFNLPRG T/IKATLLD*TLAGGFQMVDP LGG*TGPDHRLRYIKVENIPKV GEEGDAETTGGTAV
22440	52808	A	22568	2	393	
22441	52809	A	22569	1066	1824	
22442	52810	A	22570	2	165	
22443	52811	A	22571	3	902	

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22444	52812	A	22572	1	2034	
22445	52813	A	22573	176	873	RLFGEMSKLN/HNLSEVMSKLE KQHSSKVFVVKRLSSSSRRSLVI SPPVRTSTVSSPLTSPTSPSTLSS KSKSESVSATEDLAPDAAQGED NSEIKELLEDEEIGKEGSEASSS EEEEPLLTCNGPSQAQPSPIIESA RSQEEVPPSSPALSPGGALSPSG HPLSSAAEVVLRTRTAVPQAKG NNVVITSYMTNRGFFEDKKATF APSFLMNIKGNKTSVVKNSILE QGQLTVN
22446	52814	A	22574	1	1890	
22447	52815	A	22575	2	1279	LSVFPRVRNFTTQAECH/KLFF VLKNFLIAGGGVHESSKRAS*T LQFIYY\SEWYGHEELKAIVWN NDLLWEDYEEKLADQAVRTM EIYVAQFSEIKERIAKRGRKLVD YDSARHHLEAVQNATKKDEAK TAKAEEEFNKAQTVFEDLNQEL LEELPILYNSRIGCYVTIFQNISN LRDVFYREMSKLNHNLYEVMS KLEKQHSNKVFVVKGLSSPSTL SLKSESVSATEDLAPDAAQG EDNSEIKELLEEEIEKEGSEASS SEEDEPLPACNGPAQAQPSPTT ERAKSQEEVLPSSSTTPSPGGALS PSGQPSSSATEVVLRTASEGS EQPKKRASIQRTSAPPKPPEKPV RTPEAKENENIHNQNPEELCTSP TLMTSQVASEPGEAKKMEDKE KDNKLISANSSEKYIFQRPSVLI

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22448	52816	A	22576	1	1791	MPGARTSSSGASENHRARGQG GGPQGVGRMAEGKAGGAAGL FAKQVQKKFSRAQEAL*KLG KAVETKDERFEQSASNFYQQQ AEGHKLYKDLKNFLSAVKVMH ESSKRVSSETLQEIYSSEWDGHE ELKAIVWNNDLLWEDYEEL\A ADQAVRTMEIYVAQFSEIKE\RI AKRGRKLVLDYDSARHHLEAVQ NAKKKDEAKTAKAEFEFNKAQ TVFEDLNQELLEELPILYNSRIG CYVTIFQNISNLRDVFYREMSK LNHNLYEVMKLEKQHSNKVF VVKGLSSSSRRSLVISPPVRTAT VSSPLTSPSTSLKSESESVS ATEDLAPDAAQGEDNSEIKELL EEEEIEKEGSEASSSEDEPLPA CNGPAQAQPSPTTERAK\SQEE VLPSSTTPSPGGALSPSGQLSSS ATEVVLRTRTASEGSEIRPKKT ASIQRTSAPRRPPPPRATASPRP CSGNIPSSPTASGGGSA\TSPRAS LGTGTASPTSLEI\*PNPE\PEK PVRTPEAKENENIHNQNPEELC TSPTLMTSQVASEPGEAKKME DKEKDNKLISADSSEGQDQLQV SMVPENNLTAPPEQEEVSTSE
22449	52817	A	22577	2216	2568	RPSLGLGM/C/TIWQ/TSLA/GKH RRTIETHDDYRISLEQGTGLE PPLNALTAISKKIGCNQFFPFQIR PGKNETDGRMFSPAIGIVEDPV TGNANGPMGAWLVHHNVLP DGNVLRVKGH
22450	52818	A	22578	108	532	WGSKGNLLYSHQTHSVSHQFS LVACCLELEYSPFSFPYACLLSS LMRLEKHQELNLWPAHQRSRMR HPQDTLVVFS/HHGRVLL*DKT SRGTIRQQHSRFTKICCSAATAA VTQANRVWSGPLANSNRPAAE GPVLAAFMGWL
22451	52819	A	22579	1	1125	

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22452	52820	A	22580	1	985	MCARGSLWGCYSGLERKCEAA LPDRVVSSKSACGAVSQDLLQ AQGRRAGPPSWLYADPVHTGT IECGGHWCLNAALLDFQSPQRL LTYLHCGLQRPME SDPPELAPM VHHQEGIYLNIRKAMYDKPTA NKL NWDKSNVSSLTGTRQEET TANGTTFATIH LQFFIQIPAVPR KTLLNRADYYFPEHNPSLTLVI NRRITKFSEPNWEAPPSRGR LTP HTAGYSSETKIPEERSDSSIRGS RKSAVLQPLLLDSQANRVWSG PLANSNRPA AEGPVC*LWWVT LHGPKATMQVCQQLW
22453	52821	A	22581	294	934	YPPSPAELTVCLRLQLRDLV YCIAYPSGPGVKPFRGNSA/G/V VFPADNLSEAQMQLI/ARELGH SETAFL LHSD/DSDVRI/RFTPTV EVPI/CGHATVA AHYVRAKVL/ GLGNCTIWQTS LAGKHR/VTIE KHND DYRISL NALTAIS/KKIGC NGFFPFQIRPG/KNETDGRMFSP AIGIVE/DPVTGNANGPMGA WL VH/HNVLP HDGNVLRVRQ*GPR
22454	52822	B	22582	1163	5585	
22455	52823	A	22583	2	429	AACAAAMSLVIEKFQHILRVL NTNIDGRRKIAFAITASSSSSSSS SSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSSSVNLLSNGLYL/VKG VGRRYAHVVLRKADIDLTKRA GELTEDEVERVITIMQNPRQYKI PDWFL
22456	52824	A	22584	84	424	GVHAASDKPCWITTSQTPDVQ HRW/WLLISSML* TAPNRRSDK AFTPHPTNHAGS QLRKHPTCSI DGVIDIFHAVNTFVQH HMEETL KAFHVTGHHIL IARHGLGVGKE NTEHAANVVNDQRNSGFFCRF QQTF CQTCCQLIQRFVNARLRD FISC
22457	52825	A	22585	88	381	IQVLANGLDNKLREDLERLKKI RAHRGLRHFWG*VGGLISLPTS TQHSSYSLFFFPNLLFLLCMTCD SSLFTCSLRVRGQHTKTTGRRG RTVGVS KKK
22458	52826	A	22586	355	699	FIDTTEAGSHFLYALVRFAATIT TITDDGARRLRTL FQRQQADLV SVSKSGFFTADCTHTNALIDVV RTIFNNAVF*NPGFVIARLKIEIA I IKATFGQLTEDREQVLMFQAV RR

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22459	52827	A	22587	1389	1532	SVLPGRPDARQYRQTRQSW*R WSLRLRGSYPVAGRSLRRHRQ TERF
22460	52828	A	22588	1	427	LVHQQWQTKKKSLIYPFCHSP SQRVVEVAALDQWLAMLYPR VEHQAVLAVVVVVVGPLVVRP YHTRRDAVRLLRQPAVFIVAV DIVRILRDAVIRPHCECTVRVIR SGSGSRLPAGSVAYGMRMSRS GARVRTLSILPVAL
22461	52829	A	22589	1	915	
22462	52830	A	22590	1166	1321	
22463	52831	A	22591	813	977	
22464	52832	A	22592	3485	4237	
22465	52833	A	22593	1	499	ARAAACAAAMSLVIPEKFQHIL R\VLNTNIDGRRKIAFAITAIKG VGRRYAHVVLKADIDLTKRA GELTEDEVERVITIMQNPTQYK IPDWFLNRQKDVKDGL\FQPGS *ANGLSTTKLARENLKPLKEDSG PIKGLRQLP/WGLRVRGQHTKT TGRRGRTVGVSKKK
22466	52834	A	22594	1	1197	
22467	52835	A	22595	1	1905	
22468	52836	A	22596	37	514	WTWWLRCYENRHRHCHLLQQ LPTSPHQHAVATPTTVAVPTAP AATPPVVAVVVAVVVVVVVP VVPVVASVPFVEPGSDVIVCAE MDEQWGYVGAKSRQRWLFYA YDSLRTVVAHVFGERTFDVVI WMTDGPWPLYESRAFTGRDC VDDAFFAVAGV
22469	52837	A	22597	1	471	
22470	52838	A	22598	2	323	SRIQPGSDVIVCAEMDEQWGY VGAKSRQRWLFYAYDSLRTV VAHV/FGERTIRTLRRLFRCLR SSHDLVSSPVSHRRRRRAGSRQR HRRARGGENVEYQWGA\LRHG
22471	52839	A	22599	2033	2310	ARYVGNAGCTGGALFGRSQT REAVG/ERRLAESRDVAALDTP CDPEIKMAEWMQTLKETGSTS GHIVTRRISVRISHVTPGPASQD GPDVQQR
22472	52840	B	22600	1	4891	
22473	52841	B	22601	7	1233	
22474	52842	A	22602	193	492	
22475	52843	A	22603	1	486	

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22476	52844	A	22604	62	443	RSDRLLIHGFSFPAMGFRLRKT VVAHVFGERTMATLGRMSLL SPFDVVIWMTDGWPLYESRLK GKLHVISKRYTQRIERHNLNR QHLARLGRKSLSFSKSGTACCG HCLTRDIPMLHHQGNQLF
22477	52845	A	22605	971	1444	SMGSGDMRSPSRAAALRQLPR PFRQLAVRMEMISRFRSAKEQT KSLRKWRKAKSIF*SVAQTGFN VLVCTTIIETGIDSRQPTLLSLNA RITSVCAAAPVTRSRRTFASSGY AWLLTPHPKAMTTDAKNVLKQ LPRWKISGQVRAGTARSGDSRR W
22478	52846	A	22606	1	1047	
22479	52847	A	22607	318	598	LTGFRRLCDLRFGGGAVRSVLA RSREFILQH*FRRIVTGSMGRSL VPSAPLR/PSIVLVLFKAW*LV KTQRKMHVVSIVQKKASCWYP LLGCL
22480	52848	A	22608	1	2652	
22481	52849	A	22609	1	852	
22482	52850	A	22610	1	807	
22483	52851	A	22611	1	1740	
22484	52852	A	22612	1	3144	



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22485	52853	A	22613	173	1983	PVQNGSSPLGALPGAPLIFGPSV PAISRPGSCSPEWPTLDTSGYSA PR/WLFTA YAGSEAVFAHVFGD ALGDAGLLMSLLSPFDVVIWM TDGWPLYESRLKGKLVHISKRY TQRIERHNLNLRQHRLARLGRKS LSFSKSVEQHDKLESPLGQIDKS LDEASLSLRAGSLRTITHILLPLL RPAILSALIYSFVRAITTVSAIVF LVTPDTRVATAYILNRVEDGEY GVAIA YGSILIVVMLAIIIFDWL IGESLLSRFEKTVDHDSQSRLPA EGSILSQDISGVKLFSLLTARG YVPIRAPCPFLCASYRFFCVARQ QGLDAALIDAPLAVDALTPLE LLSHVGQAPCSVPVDEDDQY VGIISKGMLLRALDREGGVRVP VDYILNGFHPLLLGMPLAIIIV FALIACRFPGSNGRIRRSRRIRH LHKMPDATLSASYQAYVRHQT NVTALVLRSSHRFRKDRHCWG FVFLQQPILRATGQFEIQTFRYL SVFSVQRHKTNGKTALMSGNV ADKAVNRATGPTACVWLFSLR NSSMVTTRFCGLCEWADQQGA RPARISENGKRGYSYLYDVHM GAQSGETRGRQGEYASKPPSRE
22486	52854	B	22614	1	2149	
22487	52855	A	22615	1	1815	
22488	52856	A	22616	2014	3411	
22489	52857	A	22617	1	922	MVICQPINGGWQWPPSTGTDP APYFRIFNPTTQGEKFDHEGEFI RQWLPELRDVPKGVVHEPWK WAQKAAAPPQTRLHSTPTTIPH RVPGHTPNLKPIWEVDLPKFSH KATSHATDKPSDTTQNDQIVIA YMEPPEIVHETTSSTHPSLYIIL KRQTRELRPQSVTSRIQPGSDVI VCAEMDEQWGYVGAKSQRQW LFYAYDSLARKTVVAHVFGERT MATLGRLMSLLSPFDVVIWMT DGWPLYESRLKGKLVHISKRYT QRIERHNLNLRQHRLARLGRKSL SFSKSVELHDKVIGHVYLNKHY

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22490	52858	A	22618	1458	2185	YGHEWRWMPGNRPHYGRWP QHDFPPFKLRPQSVTSRIQPGS DVIVCAEMDEQWGYVGAKSR QHWLFYAYDRLRKTVAHVFA GERTMATLGRMLSLSPFDVVI WMTDGWPLYESRLKGKLVHVIS KRYTQRIERHNLNLRQHLARLG RKSLSFSSKSVKITSGPTTNATP GTQKTATDKRGGKKLPQIPIGP ISRIASGAINTISIGLRKFLVTA GVMLSTQRSIYDRHQVITSAGIT
22491	52859	A	22619	493	1518	
22492	52860	A	22620	963	1597	
22493	52861	A	22621	1	3052	MATDSVGLNCTPAPHARDVLL WRPSSLPVSTSCVFLGRIGDVS DESDDKTEAPTPHRLEKAREEG QIPRSRELTSLLILLVGVSVIWF GGVSLARRLSGMLSAGLHFDH SIINDPNLILGQIILLIREAMLAL LPLISGVVLVALISPVMLGGLVF SGKSLQPKFSKLNPLPGIKRMFS AQTGAELLKAILKTILVGSVTG FFLWHHWPQMMRLMAESPITA MGNAMDVLVGLCALLVVLGVIP MVGFDFVFFQIF
22494	52862	A	22622	1	1233	MANDLPHSNSGDGQKPPSPDLF TAPLLADPTVGFLPNDAEELFIF LTEITEITPCRVTDPLVVTLHE KKGDVLPVPYDHQRFSGIFE DRSYICKTTIGDREVDSDAYYV YRLQAVPPVQLLTGWCVTAKA PPDISAISALTAVKHGNCSSLTP LLNPPGSDVIVCAEMDEQWGY VGAKSRQRWLFYAYDSLRRAR RVVAHVFG\*RTMATLGRMLSL LSPFDVVIWMTDGWPLYESRL KGKLVHISKRYTQRIERHNLNL RQHLARLGKSLSFSSKSVELHD KPSQHQREGVKDVMRFNEPMY PLESRPLYVCHLRNGAQASGR RCQLPMGCACHPVSQRNDRPN RRPERHATRKTTRQRQQNSRQ HKQTQKKAKPNKRATERGKG PQKAERPKRHTHCFLKLQ

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22495	52863	A	22623	3	1386	HEASSPLAMASLTVKAYLLGK EDAAREIRRFSCCSPEPEAEAE AAAGPGPCERLLSRVAALFPAL RPGGFQAHYRDEDGDLVAFSS DEELTMAMSYVKDDIFRI*IKE KKECRRDHRPP\CAQEAPRNMV HPNVICDGCNGPVVGTRYKCS VCPYY\DLCSVCEGKGLHRGHT KLAFPSPFGL\SEGFSHSRW\A RKV\KHGHF\GWPGW\EMGPPG\A NWEPTFLPRAG\EARPGP\TAES ASGPSEDPSVNFLK\NVGESVA\ AAFSPL\NFEVDIDVEHGGKRSR LTPVSPSSSTEES\SSQPSSCC SDPSKPGGNVEGATQSLAEQM RKIALESEGRPEEQMESDNCSG GDDDWTHLSSKEVD PSTGELQ SLQMPSEGPSSLDPSQGGNPQ GWKEAALYPHLP\PEVEPAA*F ESLSQMVVPWGFS*LKGGWVH QGSCRPRNYD\GAAL\DTIPVIQ
22496	52864	A	22624	1032	1127	FYAKAEAGDRTVA*PHKPKMF LSIHHRVAKI
22497	52865	A	22625	121	561	VFPGLGLSLVDICGSRVPFPWV VPAVLPVQFVQRLPRFFRCPPV LVTSVIRSISTLIQALGSSPFARR YWGNLG*FLFLGVLRFCFSSTGS PH*PMNSVND SVSKHT/EVTPF GNP GNNGSYHLTDAYRRLARP SSPLTPGHPPLYG
22498	52866	A	22626	243	454	ATAGCPSCSATEGVVRNGKST AGHQRYLCSPCRKTWQLQFTY TASQP/GARIMGVGLNTVLRHL KNSGRSR
22499	52867	A	22627	3	640	
22500	52868	A	22628	236	410	
22501	52869	A	22629	116	359	

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22502	52870	A	22630	276	1905	LFLYSSHGQYGCPCSATDGVV RNGKSTAGHQRYLCSHCRKTW QLQFTYTASQPAGQ*RTAIATVI CCNNCQRRHTNSRCHTDNCRR ADSASSHATSGSSSRGCAGSGR CGASSTRCLGPVCCFRGSKRS WRRQHEGHKDCRKLVFHNFSFI HRMDNTAVPPVQLLTGWCVTA KAPPDISAISALTAVKHGNCSSL TPLLNPFGSDVIVCAEMDEQW GYVGAKSRQRWLFYAYDSLRLK TVVAHVFGERTMATLGRMLSL LSPFDVVIWMTDGWPLYESRL KGKLHVISKRYTQRIERHNLNL RQHLARLGRKSLSFKSVELHD KQQGLDAALIDAPLAVDAQTP LSELLSHVGQAPCAVPVDED QQYVGIISKGMLLRALDREGGV RVPVIYPKRFRRTDVCMPPLSLG TCIREIEAEFPDPIFRRSVYICE HNTNGAMGIIVNKPLENLKIEGI LEKLKITPEPRDESIRLDKPVML GGPLAEDRGFILHTPASNFASSI RISDNTVMTTSRDVLETLGTDK QPSDVLVALGYASWEKGQLEQ EILDNAWLTAPADLNILFKTPIA DRWREAAKLIGVDILTMPAQD GTPDWNIIERLLKEWQPDEIIVG LPLNMDGTEQPLTARARKFAN RIHGRFGVEVKLHDERLSTVEA RSGLFEQGGYRALNKGKVDSA SAVIILESYFEQGY

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22503	52871	A	22631	399	2337	PEVQGLQQAGAAARRPGVGLA APRVVCEGRLRGSLQSRPCG ASV*ATDGVVRNGKSTAGHQR YLCSHCRKTWQLQFTYTASQP AGQ*REKEEKEEVEEEEEEEKK KRRREGEKEEKEEKEEKKKKK FKKKKKKKKKKKKKKKKKKKK KKKKKKKKQLSLVTVMSSQQCQL WRNEARTTGACLPSTVSAAAP PIVSTTVTAFAAATLAKGDLRS RASSKQVPLLVLVWV.WPHPG WFKVAGSVALGSSPGCVLELL CKLLTGWCVTAKAPPDISAISA LTAVKHGNCSSLTPLLNPPGSD VIVCAEMDEQWGYVGAKSRQ RWLFYA YDSLRTVVAHVFE RTMATLGRMSLLSPFDVVIW MTDGWPLYESRLKGLHTQER KARSKQQKDADTAPPIQVGTQ TPQTVHAARDTRQASPRASKIS QHRQADGDKRQTRHAEAQAT RTHTGRRKTIKETATQQA YADE QTRRTARTHRTARHTAAHTH RTRVAARQTTEKDNEQSDTQPP TQKTPSATATAHTPRRTETTTNI VQARHTSARERNHTRQHQATR RETTTNAHTNTPHYHAEHTQSR SQQQTTSTERPTTDSSTTINNNN HTPRTVRDERRMTQHKHPSRA STTTNRTTTTGAYQHTQRDTRD TRRDTHEDTTTQQPHTTTPTAN EAA YTAHTTKTDDHRHTADDT
22504	52872	A	22632	103	313	ATAGCPSCSATEGVVRNGKST AGHQRYLCSPCRKTWQLQFTY TASQP/GARIMGVGLNTVLRHL KNSGRSR
22505	52873	A	22633	620	832	

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22506	52874	A	22634	453	1047	AADDRGHLRPTDGLLRNGKST AGHQRYLCSHCRKTWQLQFTY TASQPAGQ*RVGTGTSERREQIIQ RLRQQGSVQVNDLSALYGVST VTIRNDLAFLEKQGIAYRAYGG ALICDSTTPSVEPSVEDKSALNT AMKRSVAKAAVELIQPGHRVIL DSGTTTFEIARLMRKHTDVIAM TNGMNVANALLEAEGVELLMT AGICALLTGCCVTAKAPDISAI SALTAVKHGNCSSLTPLLNPPG SDVPVCAEMDEQWGYVGAKS RQRWLFYAYDSLRTVVAHV GERTMATLGRMLSLSPFDVVI WMTDGWPLYESRLKGLHVIS KRYTQRIERHNLNLRQHLARLG RKSLSFSSKVELHDKVIGHYLN GDFLQSTLREAPLIPHTREHP
22507	52875	A	22635	1089	1686	TSPGYWRANSTDPDGRYCRTG TSGGVCHALSSLRCPSCSATDG VVRNGKSTAGHQRYLCSHCRK TWQLQFTYTASQPAGQ*RFLSK QEKTLINQLASEEQQKVTSRL SDALRN GRVWQLAIHYLTQVA VYGLIFFLPTQVAALLGTVGF TASVVTAPWVAALFGTWLIPR YSDKTGERRNVAALTLAAGIG IGLSGLLSPVMAIVALCVAAGF IAVQPVFWTMTPTQLSGTALAA GIGFVNLF GAVGGFIAPILRVKA ETLFASDAAGLLTLAAVAVIDR RGTSNLRLRNTMIALLSNPFKE RLRKGEVQIGLWLSSTTAYMA EIAATSGYDWLLIDGEHAPNTI QDLYHQLQAVAPYASQPVIRPV EGSKPLIKQVLDIGAQTLLIPMV DTAEQARQVVSATRYPPYAVH PVQLLTGWCVTAKAPDISAIS ALTAVKHGNCSSLTPLLNPPGS DVIVCAEMDEQWGYVGAKSR QRWLFYAYDSLRTVVAHVFG ERTMATLGRMLSLSPFDVVIW MTDGWPLYESRLKGLHVISK RYTQRIERHNLNLRQHTGTGW DGSRCRSQKSGGAA
22508	52876	A	22636	91	200	SGIIAFQYLLMTLKVLPVASVSI SCPSICSATDG VVRNGKSTAGH QRYLCSHCRKTWQLQFTYTAS QPAGQ*RGGA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22509	52877	A	22637	2649	3270	GAPVASVSISCPSCSATDGVVR NGKSTAGHQRYLCSHCRKTWQ LQFTYTASQPAGQ*RTIGRAML KNKHMTITEFVAQRMRAQK GEISPDINTAMTSRLLLDLTYGV LADIEAEDLARKRRLRITRDD WRYLNRILILSLFRRAGDNCAR VSYQTPTREIKKLDGLWAFSLD RENCIDQRWWESALQESRAIA VPGSFNDQFADADIRNYAGNV WYQREVFIPKGWAGQRIVLRf DAVTHYGKVVVNNQEV
22510	52878	A	22638	1	2470	MNADTDYSIAEAAFNKGETAM TINGPWAWSNIDTSKVNYGVT VLPTFKGQPSKPFVGVLSAGIN AASPNKELAKEFLENYLLTDEG LEAVNKDKPLGAVALKSYEEE LAKDPRIAATMENAQKGEIMP NIPQMSAFWYAVRTAVINAAS GRQTVDEALKDAQTRITNCCRI RRESLIRPGMRKNPMDVIKKKH WWQSDALKWSVLGLLGLLVG YLVLVLMYAQGEYLFATTLILS SAGLYIFANRKAYAWRYVYPG MAGMGLFVLFPLVCTIAIGFNN YRRTKQVAGMPAKSSSLRSSQ DREMRPGAKAERTRYDSPGSY GVAGPGFLGSRGGSPFGGPGKY NNTITKYALNIAPSAQNQSPHG PKLNRQETQHALDWLDAGYT FTYSEDQALTPYFKLAYVYDDS NNDNDVNGDSIDNGTEGSAVR VGLGTQFSFTKNFSAYTDANYL GGGDVDQDWSANDLTGITAKD AQMLS VVKPLQEFGLDKCLS RYGTRFEFNNEKQVIFSSDVNN EDTFVILEGVISLRREENVLGIT QAPYIMGLADGLMKNDIPYKLI SEGNCTGYHLPKQTITLIEQN QLWRDAFYWLAWHNRILELRD VQLIGHNSYEQFAHIIFMIAAM QMGSVWGDDFSSGQHSVARKS QLHKPILRVKCHEGFTISANPNS SPRYPTIIEQAEQPRIVDFSIVRF
22511	52879	A	22639	1	852	

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22512	52880	A	22640	1	747	MIIIDPRYTDGAGREDEWIPIR PGTDAAALVNGLAYVMITENLV DQAFLDKYCVGYDEKTL PASA PKNGHYKAYILATD/GVVRTAK STAGHQRYLCSHCRKTWQLQF TYTASQPAGQ*RYTDTGAGRE DEWIPIRPGTDAAALVNGLAYV MITENLV DQAFLDKYCVGYDE KTL PASAPKNGHYKAYILATDG WCVPPKAPPDISAISALTAVKH GNCSSLTPLL NPPGSDVIVCAE MDEQWGYVGAKSRQRWLFYA YDSL RKT VVAHVFGERTMATL GRLMSLLSPFDVVIWMTDGWP LYESRLKGLHVISKRYTQRIE RHNLNLRQH LARLGRKSLSFSK SVELHDKVIGHYLNKHYQ
22513	52881	A	22641	1722	2463	NPRLAGSEGSCPCSATDGVVR NGKSTAGHQRYLCSHCRKTWQ LQFTYTASQPAGQ*RKLTPGCL FVALKGERFDAHDFADQAKAG GAGALLVSRPLDIDLPQLIVKD TRLA FGELAAWVRQQV PARVV ALTGSSGKTSVKEMTAAILSQC GNTLYTAGNLNNDIGVPM TLL RLTPEYDYAVIELGANHQGEIA WTVTHPPRFVTKQWLCFLPDG LLLFAEARFVIWQM QPAVMAV DVAAFAHLFNQQQYQRFTGRP PDSSKLPWKITCNGECVTFHW WLLGVAVRISRLLPVRVMTAL EGNYNNGTEGISALPFNGI LAHS NESEWVTFRNNKNNEAFLDRV YIVKVPYCLRISEEIKIYEKLLN HIFECWQHFLN NPESLQCYIWA ANADFREARQVIFKTFFTVGVE EELGIRQTRTNDFLVTGDNLLRI FRFDVGNEDKVRQQFAVVR IH REVFLVTFHGVNQRFSRHREEF LFEFCVSVTANLTRCFFGIGFNL RL TFFVIGDDFPTLTQNFRILIGV IDGEFRLAHKAVAANHAIGLNA QNGCRNDFVAHAAGSRALAAD GRSLEHAPT VETV VAGPLCESG DVFTQQEGGNVETRALPEVKA AVPPVQLLTGWCVTAKALPDIS AISALTAVKHGNCSSLTPLL NPP GSDVIVCAEMDEQWGYVGAKS RQRWLFYAYDRLRKT VVAHRL



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22514	52882	A	22642	90	1254	KGLCSHSEMVVPSYSATDGVV RNGKSTAGHQRYLCSHCRKTW QLQFTYTASQPAGQ*RDIVLTK LMMVWHSQSGYEKAYAHQR WWYRAILLTGWCVTAKALPD ISALSALTAVKHGNCSSLTPLL PPGSDVIVCAEMDEQWGYVGA KSRQRWLFYAYDRLRKTVAH VFGERTMATLGRMSLLSPFDV VIWMTDGWPLYESRLKGLHV ISKRYTQRIERHNLNLSSTSILVL LNGATQFQDLGDLNKELEETY TDSKNHISCVGNDFGFNDIFSR YVEAVGREGDVLLGISTSGNSA NVIKAIAAAREKGMKVITLTGK DGGKMAGTADIEIRVPFHGYA DRIQEIIKVIHILIQLEKEMVN FTGLVQRGGGTGPHKDGWGIT FYEVA FEDVAVNFTQEEWALL DPWQKKLYRDVMLETYRNLAS VGDDDNIPSLREQVAHQRYFKT WHVEREYFSK
22515	52883	A	22643	690	1233	RLQSLHYQGRGKPVPMRSYSL FLFTISNSAGVFRCPSCSATDGV VRNGKSTAGHQRYLCSHCRKT WQLQFTYTASQPAGQ*RLLGP KNRPREQNWLLWCERGVM SRL QALYLREQGFNNVKVDNFQTK VDSCTRPLAGQQFYPCIPDDAL VQPLFGGNFVFQRREAGHITNR EDIVRHQHGGWRGANSRDDTP GTVELFNGFNQQSAIAKTLRAF NATRQHDHVIFAISHFDQRRIR QQLHAARAGNRQVTIAGDAGS GDFDTAANQQIDSGDGFSLFTT RGEANQCRCIAHIHSPFFLPFQT VRVFSVPPVQLLTGWCVTAK APPDISALSALTAVKHGNCSSLT PLLNPPGSDVIVCAEMDEQWG YVGAKSRQRWLFYAYDSL RKT VVAHVFAVKPYWDTGGGFHC RWIYMQQEKELLQSLQQGKY NQKRAAELLGLTYHQFRALLK

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22516	52884	A	22644	1314	1483	RIQRYCGKTGCPSCSATDGVVR NGKSTAGHQRYLCSHCRKTWQ LQFTY TASQPAGQ*RMFNADG SEVAQCGNGARCFARFVRLKG LTNKRDIRVSTANGRMVLTVT DDDLVRVNMGEPNFEPSAVPF RANKAEKTYIMRAAEQTILCGV VSMGNPHCVIQVDDVDTA AVE TLGPVLESHERFPERANIGFMQ VVKREHIRLRVYERGA GETQA CGSGACAAVAVGIIQQGLL AEE VRVELPGGRLDIAWKGEELQET LTELD DRAVVDYLIK NPEFFIRN ARAVEAIRVPHVVRGTVSLVE WHMARARNHIHVLEENMALL MEQAIA NEGLFYRLLYLQ RSLT AASSLDDMLMRFH RWARDLG LAVAMPVTINKGNQIIENQLDT ETITISYEFILCQH LIANTEFSYL ALPENYNRLCLPNSKNQ TNNRF KTLNSKAIGRLLAAGGVYNGNI EGFRDTAEKLA VPPVQLLTGW CVTAKALPDISAISALTAVKHG NCSSLYTASQPAGQ

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22517	52885	A	22645	1479	1793	TRYRSCPSCSATDGVVRNGKST AGHQRYLCSHCRKTWQLQFTY TASQPAGQ*RRNACQYRTPAV VASRQKRWHGDLGMIGSRDV MLFISDSVGAKELDLIIPRLEDK SIALLAMTGKPTSPLGLAAKAV LDISVEREACPMHLAPTSSTVN TLMMGDALAMAVMQARGFNE EDFARSHPAGALGARLLNKVH HLMRRDDAIPQVALTASVMDA MLELSRTGLGLVAVCDAQQQV QGVFTDGDRLRWLVGGGALT PVNEAMTVGGTTLQSQSRAIDA KEILMKRKITAAPVVDENGKLT GAIKLQDFYQGRGLFNPSIPRVS TADAGLANRARRNWVGSSWK QVGQIILQGGPQNAEKSGQRYT VSHDRHRDAERQVRKSGLPY AECSTYPSCPVALDLAFASHGI HMHAPGEALRMLVTAMDKAA DARTKLARLLATKGITHEIQIPD ISTKEKAQQPIGLNMEQIKPEKQ DFIKPVIPQAGKHNGVNMSVLR SLLTAGVLASGLLWSLNGITAT PAAQASDDRYEVTQQRNPDA CLDCHKPDTEAVPPVQLLTGW CVTAKAPPDISAISALTAVKHG NCSSLTPLLNPPGSDVIVCAELD EQWGYVGAKSRQRWLFYAYA QSPRTTRCCARIRLHALWRRW

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22518	52886	A	22646	807	1350	NRGCPSCSATDGVVRNGKSTA GHQRYLCSHCRKTWQLQFTYT ASQPAGQ*RLLNRLIEPTRGQV LIDGVDIKISDAELREVRKKI AMVFQSFALMPHMTVLDNTAF GMELAGINAEERREKALDALR QVGLENYAHSYPDELSGGMRO RVGLARAINPDILLMDEAFSAL DPLIRTEMQDELVKLQAKHQR TIVFISHDLDEAMRIGDRIAIMQ NGEVVQVGTPDEILNPNANDY VRTFFRGVDISQVFSAKDIARRT PNGLIRKTPGFGPRSAKLLQD EDREYGYVIERGNKFVGAVSID SLKTAAPPPVQLLTGWCVTAK APPDISAISALTAVKHGNCSSLT PLLNPPGSDVIVCAEMDEQWG YVGAKSRQRWLFYAYDSLRT VVAHVFGERTMATLGRLLMSLL SPFDVVIWMTDGWPLYESRLK GKLHVISKRYTQRIERHNLNR QHLARLGRKSLFSKSVELHDK VIGHYLNKHYQ
22519	52887	A	22647	1	1270	MTAATEQLNASRGLSTREMER QAELAKITTDYINSGGSEGDEK LQNMKAQNDYYAAEDAKRA DWLAGAESAFADYGDSAMDM YGNVNEIASSALNGMTDMMV QFLTGTGKANFADFAKNIISMIK MIAQMVIFNTSLRNDGRSVSSG GAAVSLAAAAGSVATSGFNAS NSAPKVVTIREVERSDVSGME ASSTSWITIRSFTAETSTFGPTM TASMTFLPTYCSIIASLLSSFCLA AATDGVVRNGKSTAGHQRYLC SHCRKTWQLQFTYTASQPALA RNPNRDITIYWGGREEQHLYDL CELEALSLKHPGLQVVPVVEQP EAGWRGRTGTVLTAVLQDHAT DGVVRNGKSTAGHQRYLCSHC RKTWQLQFTYTASQPGTHQKII DMAMNGVGCRTARIMGVGL NTIFRHLKNSGRSR

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22520	52888	A	22648	381	945	GAPVASVSISCPSCSATDGVVR NGKSTAGHQRYLCSHCRKTWQ LQFTYTASQPAGQ*RTENQTPH VLTHKWELNYENPWTQGGEHL TMGLVVGWRGLQEGDPARTN LSYYQANVGSGQHRENGKPIN LGNVGKSNGERGGKSLYRCKIF LESSVTMKDRELPPVYDGVFEV LQWLLFLSAVPPVQLLTGWCV TAKAPPDISAISALTAVKHGNC SSLTPLLNPBGSDVIVCAEMDE QWGYVGAKSRQRWLFYAYDS LRKTVVAHVFGERTMATLGRML MSLLSPFDVVIWMTDGWPLYE SRLKGKLVHISKRYTQRIERHN LNLRQHLARLGRKSLSFSSKSV LHDKVIGHYLNKHYQ
22521	52889	A	22649	354	1119	RRWRRGAHEAATGGTGRGPAE EAAPGEPAAGRAAPKSGGKRL GGVLGRGGVGRSGSPDRSGA HSAAPRRRCRQLPGRCPSCSATD GVVRNGKSTAGHQRYLCSHCR KTWQLQFTYTASQPAGQ*RSK GAIGEGPPDPRGIVEQNLGDIS IPCYNNGPRPRRSAQKTTLGPLN QPRIPSAQCAGAFPRVAAAGAG GGGGGGSGSGFCLGWRLRRR RQRRRRWRRGEGEGDGDAGH MRPRPAGRAEARRRRRLRGNP PPGARLPNREGNGSGVSWAAE VSGDGRGARTEAARTRRRPPG ADNYPGAVPPVQLLTGWCVTA KAPPDISAISALTAVKHGNCSSL TPLLNPBGSDVIVCAEMDEQW GYVGAKSRQRWLFYAYDSLRLK TVVAHVFGERTMATLGRMLSL LSPFDVVIWMTDGWPLYESRL KGKLVHISKRYTQRIERHNLNL RQHLARLGRKSLSFSSKSVLHD KVIGHYLNKHYQ
22522	52890	A	22650	23	658	VISRPGSSIQVRGLLSRHGLAL GSAPDLWKLPPVNLVQGMGQ QSQGSSCREGCSRQCPSAAPC GAAPAHFCSAATFWESEVQSIP R/CRATDGVVRNGKS/TAGHQR YLCSHCRKTWQ/LQFTYTASQP EVIRSSPTSAPRSDGKTVPPLM GISP*SAHRLATSDPSLCLSES LCSREPAAVPRASNQQPQGVK DVHHQFTARTSRYPSC
22523	52891	A	22651	926	1093	

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22524	52892	A	22652	343	817	GGARSRQNPRCGPCMVVVPQG SGRSVSADSSSTEFREQGGSVAIS FPKSINRAGPELFRFMENPFNSV *YRKNVRELTAIMAVLPVEFR TRLAPQNDTMSLIASAMKECSE AKQAVLLNAPEHQMKKEVSEG IASLFRLMPEQVGPLMTMVT MLGVI
22525	52893	A	22653	115	425	
22526	52894	A	22654	747	1173	
22527	52895	A	22655	1	2709	
22528	52896	A	22656	1	2583	
22529	52897	A	22657	636	1029	APSDQKRDFLVPHGADSAMAK SG*CESGNDLLSSSHMNQLR/A/ ESIPEDVIAGASALVLTFIKFI AENPQWWQQFLKDHVSILAMN EDEAEALTGESDPLLASDKALD WVDLVLCTAGPIGLYMAGGGD VN
22530	52898	A	22658	1611	3300	QSAWANRHRLVDCGRPGNGSD AGVAARSGRNDGTGRCLCHS CSRYGDHHRQSDRIYRHYDAG RSPSGAVDYGTRGNRFSRAV YPVGA/RRWR*GLPLV/QQFQPE NETSAAWVVGINQPLVDIEAK VDDEFIERYGLSAGHSLVIEDD VAEALYQDVQQKNLITHQSAG GTIGNTMHNSVLAADDRSVLL GVMCSNIEIGSYAYRYLCNTSS RTDLNYLQGVDGPIGRCTLIG ESGERTFAISPGHMNQLRAESIP EDVIAGASALVLTSYLVRCKPG EPMPEATMKAIEYAKKYNVPV VLTGTFKFIKPNPQWWQQFL KDHVSILAMNEDEAEALTGESD PLLASDKALDWVDLVLCTAGPI GLYMAGFTEDEAKRKTQHPLL PGAIAEFNQYEFSSRAMRHKDC QNPLRVYSHIAPYMGPEKCN LGRSGWLLYGRGLDKQRLTQY QSKLGAAMVIVAAWCVEDYQ VIRLAGSLTARATRLAHEAQLD VAPLGKIPHLRTPGLLVMDMDS TAIQIECIDEIAKLAGTGEMVAE VTRTGDARRTRFYRQPAQPCG
22531	52899	A	22659	430	586	
22532	52900	A	22660	1	131	

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22533	52901	A	22661	1	1282	MLPAHLDACVTTLQKIRWTLS VVDPTLALRVPLPALSIRDDPPL RAYLPGRGALKVIRFDDMDFA TIDGINRMLVDIDTNYLFLPRVT SSTIRCLSVPTRRTVPAVTASGR SVKYYPPDFDPSKIPKLKLPKD RQYVVRLMAPFNMRCCTCGEY IYKGKKF\NARKETVQNEVYLG \LP\IFRFYIK\CTRCLGRDSPFKT DP\ENTDYTM\ESLGATRNFGQ* EASWEEEEKRV\QK\IEREDE/ES LNNPMKVLENRTKDSKLEMEV LENLQELKDLNQRQAHVDFEG\ MLRQHRLSEEERRSQQEEFEQ KTAALLEEARKRRLLEDSDSED EAAPSPLOPALRPNPTATLDEA PKPKRKVEVWEQSVGSLGSRPP LSRLVVVKAKADPDCSNGQP QAAPHPRSPAEQEGGQPYTPDA WRVLPPTGCIPIGQ
22534	52902	A	22662	1	412	
22535	52903	A	22663	298	532	MGSWSLPGRTLWKEKVRFLKS KERTNPGSNFFSFGSQHTREER SQECLSLPVLPSYLATRLSLPDS CPLKGRKAH*QRHSEI*LMGFE PGWPGKL*GWIELAFLGCLHL TLPLPCPTPLPPKSTKSGCFSLSI ALCFNKQFAVTK
22536	52904	A	22664	1	193	
22537	52905	B	22665	55	281	
22538	52906	A	22666	86	159	
22539	52907	A	22667	63	1036	VRGGLAAGRGRGSAGAAPVVV AAMLGAWAVEGTAVALLRLL LLLLPPAIRGPGLGVAGVAGAA GAGLPESVIWAVNAGGEAHVD VHGIHFRKCIPL*GRVGRALYY GMKLPILRSNPEDQSCYQTERS MEETFGYESPIQREGGLTCWSL KFAEVYFAQSQQKVFDVRLNG HVVVKDLDFDRVGHSTAHEI IPMSIRKGLSVQGEV\STFTQG KLLPLSFSKGYL*PIPKVCAL\YI MAG\TVDDVPKASAFNPGLEK KEEEEEEEYDEGSNLKKQTNK NRVQS\GPRTPNPYALDNSSLM FPILVAFGVFIPTLFLCLRL
22540	52908	A	22668	1570	1773	

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22541	52909	A	22669	62	454	NKQLNKKRRRTMIALIQRVTRAS/VTVEGEVTGEIGAGLLV/LLGVEKDDDEQKAN/RDAEGQM/NLNVQQAGGSVLVVSQF/TLAADTERGMRPSFSQGHHRIRAQAFYDYFVES/CRQQR*YAQGGLSAEFRLNS
22542	52910	A	22670	1	1930	MAGKPEYDKTISTSIVLNALNALGVSAEASGRNDLVVKTVEGDRKVSGSAYRETKDRGFHHGTLNLNADLSRLANYLNPDKKKLA AKGITSVRSRVTNL TELLPGITH EQVCEAITEAFFAHYGERVEAEIISPKNKTPDLNFAETFARQSSWEWNFGQAPAFSHLLDERFTWGGVELHFDVEKGHITRAQVFTDSLNPAPLEALAGRLQGCLFSLYNSDLNTVIDNVLRIFPLLLSWISFWLLYSIVPTIRVPNRDAIVGAFVAALLFEAGKKGFALYITMFPSYQLIYGVLA VIPILFVWVYWTCVTVEGEVTGEIGAGLLVLLGVEKDDDEQKANRLCERVLYGYRIFSDAEG\KMNLNVQQAGGSVLVVSQFTLAADTERGMRPSFSKGVIDIGFNTEISQTRFHQASHLFKRKGIYRLHFARRRCQQIQRRQRRR RFMQRTAVAITHQQRMKQGILRLWRNWLLWLLILLRRNRLL RLLILLWRNRLRLLLILWLRRNRLLWLLILRLRRNWLLRLLILLLRCNRLRLLYRFNNWRKQRFVWTIIQQRFHWRKFKIIQRERIRPSRLFAGITLLLSLRKLTSQFSLCRSICIFCVYGHIMLILFAIALL LCLGELTCQFILLHRIDFIIVVLI
22543	52911	A	22671	377	463	QTISQTTVQSN*NSGLRISPKTAQLHGD
22544	52912	A	22672	129	615	KARQKSCQPVTTDTQCRHTSSSIGKRLAFCQNLTIHTESTMKPWILLVMFISGVVMLLPVLGSFWNKDPFLDMIRETEQCWVQPPYKYCEKRCTKIMTCVRPNHTC CWTYCGNICLD/IRRAP*/HQC*TPRFYWPITTVG*RMTIWSKKS AAYFLLGTPTWL
22545	52913	A	22673	3	412	
22546	52914	A	22674	2	390	



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22547	52915	A	22675	180	507	CCGGRARSELCLLNLCIKGAD*I QAW*KFCQWPCERADGRGCRK AER\CPCKGAYSL/YCRESVCC LPSFVNKNSSSLCVAHNWGRH CYLWTAADVKQFISSHMFPVE HL
22548	52916	A	22676	3	227	GGGRARSELCLLNLCIKGAD*I QAW*KFCQWPCERADGRGS*F DRGAEVCNQTDWQSIRSSQGG RDQRFSTERA
22549	52917	A	22677	567	842	
22550	52918	A	22678	1	1400	MGWGGQPDVQLMNGHERSPS HSPREAKKSGSPLPTDIHCFSPQ SQPAMVITGVPTAPAGASAKM GLCATPITGACPLWLRGFRGWR CEDRCEQGTYGNDCHQRCQCQ NGATCDHVTGECRCPPGYTGA FCEDLCPGKHGPQCEQRCPCQ NNGGVCHHVTGECSCPSGWMLS FPGWRPI*FSKSL*MQGTVCQG PCPEGRFGKNCSQECQCHNGGT CDAATGQCHCSPGYTGERAAV PDVRK\CQDECPVGTYGVLCAE TCQCVNNGKCYHVSAGLCEA GFAGERCEARLCPEGLYGIKCD KRCPCHLENTHRGDDREKAEF GHLLIALEVQYTEISNCIEKSQE ASCYDIRMLKQPYGETNTEEL AVNYVYSIYASKEQIRYKHGRS FANGHVKELMEGSPRRRIAGSGG EKYKRDEEKNTLLRGQNRGGR GKNPKKTKAWVKIQGQNKIEIS GVGADRKRFREK

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22551	52919	A	22679	1	2210	MEQKGEFKNDTLIYEFFHIVAK PHPLPIKSSTYTTFQSARVTRFF LDAEKECRQCQEGQVEAALIAM GGTCQGTQRLSTAGESESATH MREPAVQCRRDSQCVSVLAGR RRFFQGAASPLHPASVALTQLH VRWASTATIGQVSGFPGKIRVS PTTNLGSDSYIFTASHWGLGHY GPAVHVHSQGGIDERGSNDG RLYVTNPCGNVPSWTPNIDRLA EDGVKLTQHISAASLCTPSRAA FLTGRYPVRSGMVSSIGYRVLQ WTGASGGLPTNETTFAKILKEK GYATGLIGKWHLGLNCESASD HCHHPLHHGFDHFYGMPFSLM GDCARWELSEKRVNLEQKLN LFQVLALVALTLVAGKLTHLIP VSWMPVIWSALSALLASSYF VGALIVHADCFMRNHTITEQP MCFQRTTPLLQEVASFLKRNK HGPFLLFVSFLHVHIPLITMENF LGKSLHGLYGDNVEEMDWMV GRILDTLDVEGLSNSTLIYFTSD HGGSLNQLGNTQYGGWNGIY KGGKGMGGWEGGIRVPGIFRW PGVLPAGRVIGEPTSLMDVFPT VVRLAGGEVPQDRVIDGQDLL PLLLGTAQHSDHEFLMHY CER VLHAARWHQRDRGTMWKVHF VTPVFQPEGAGACYGRKVCPCF GEKVVHDPPLLFDLSDRDPSET HILTPASEPVFYQVMERVQQAV

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22552	52920	A	22680	185	2091	GSTERDNMLHLHHSCVCFRSW LPAMLA VLLSLAPSASSDISASR PNILLMA\DDHGVGDIGCYGN NTMRTPNIDRLAEDGVKLTQHI SAASLCTPSRAAFLTGRYPVRS GMVSSIGYRVLQWTGASAGFT T\METTFAKILKEKGYATGLIGK WHLGLNCESASDHCHHPLHHG FEHFYGMPPSLMGDCARWELS EKRVNLEQKLNFLFQVLALVA LTLVAGK\THLIPVSWMPVIWS ALSAVLLASSYFVGALIVHAD CFLMRNHTITEQPMCFQRTTPLI LQEVASFLKRKNHGPFLLFVSF LHVHIPLITMENFLGKSLHGLY GDNVEEMDWMVGRILD TLDV EGLSNSTLIYFTSDHGGSLNQL GNTQYGGWNGIYKGGKGMGG WEGGIRVPGIFRWPGVLPAGRV IGEPTSLMDVFPTVVRLAGGEV PQDRVIDGQDLLPLLLGTAQHS DHEFLMHYCERFL\HAARWHQ RDRGTMWESPTL*PPCVSSQEG AGAC\YGRK\VCPCFGEK\VVHH DP\PLL\FDL SRDPSETHILTPASE PVFY\QVMER\VQQAVWEHQR TLSPVPMQLDRLGNIWRPWMQ PCCGPFPLCWCLREDDPQINVC SEKLEPRFLNFVTQIETNQLAM
22553	52921	A	22681	209	392	
22554	52922	A	22682	1	513	
22555	52923	A	22683	3	613	
22556	52924	A	22684	1	2115	

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22557	52925	A	22685	53	1966	VGQPRGLRTLEKLTASVAGGA ANFFGDIERDLGPRDTSRGIRG GNLGDRGCSSAEMAYASWQR WSPVEWARWMWTAVTSSGDS SLLVLQGD SGKRSSDSEAFET PESTTPVKAPPAPPPPPPEVIPEP EVSTQPPPEPGWGSETVPVPD GPRSDSVEGSPFRTQAHSFSGVF DEDQPIASTGTDILD FDNIELVD TFQTLEPRASDAKNQEGKVNT RRKSTDSVPISKSTLSRSLSLQA SDFDGASSSGNPEAVALAPDAY STESAKRVVPPASGGGRVQNSP PVGRKTLPLTTAPEAGEVTPSD SGGQEDSPAKGLSVRLF DYSE DKSSWDNQENPPPTKKIGKKP VAKMPLRRPKMKKTPEKLDNT PASPPRSPAEPNDIPIAKGTYTF DIDKWDDPNFNPFSSTSKMQES PKLPQQSYNFDPDTCDESVDPF KTSSKTPSSPSKSPASFEIPASA MEANA V\DG DGLNKP A K K K K T PLKTMVEDVMSVCSLFDTRV KKSPKRSPLSDPPSQDPTPAATP ETPPVISA VVHATDEEKLA VTN QKWTCMTVDLEADKQDYPQPS DLSTFVNETKFSSPTEELDYRNF YEIEYMEKIGSSLPQDDDAPKK QALYLMFDTSQESPVKSSTVR

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22558	52926	A	22686	662	2927	HLRRKRNLP RREG LSPALLEET PLEPAVGPKAACPLDSESAEGV VPPASGGKRC LFTTAPEAGEVT PSDSGGQEDSPA KGLSVRLEFD YSEDKSSWDNQ QENPPPTKKIG KKPVAKMPLRRPKMKKTPEKL DNTPASPPRSPAEPNDIPIAKGT YTFDIDK WDDPNFNPFSSSKM QESPKLPQQSYNFD PDCDES DPFKTSSKTPSSPSKSPASFEIPA SAMEANGVDGDGLNKP AKKK KTPLKTDTRVKKSPKRSPLSD PPSQDPTPAATPETPPVISA VVH ATDEEKLAVTNQK WTCMTVD LEADKQDYPQPSDLSTFVNETK FSSPTEELDYRNSYEIEYMEKIG SSLPQDDDA PKKQALYLMFDT SQESPVKSSPVRMSESPTPCSGS SFEETGSPLRN TAAKNQHPVP TRDWAP*PRSSHLA GCQRKSSQ E/VELGGPWGLGHPFQEGDLKF TASPRGSFASADALLSRLAHPV FSL/CGALDYL\EPNFRQKRNP LFAQKLQREA\ VHPTDVSISKT ALYSRI RTTEVEKPAGLLFQQP DL\DSALQIARAEI\TKEREVSE WKDKYEESR\REVMEMRK\LA EYEKTIAQMIEDEQREKSV\HQ TVQQLVLEKEQA\LADLNSVEK SLADLFRRYEKMKEVLESFRK NEEV LKRC AQEYLSRVKKEEQ RYQALKVHA\EEKLDRANA EI
22559	52927	A	22687	374	1268	AETNMVWYDWMRPSHAQLHS DYMQLPTEAKAKSKNKVRGV QQLIQLRLIKSPA EIERMQIAG KLTSQAFIETMFTSKAPVEEAF YAKFEFECCRARGADILAYPPVV AGGNRSNTLHYVKNNQLIKDG EMVLLDGGCESSCYVSDITRTW PVNGRFTAPQAELYEAVLEIQR DCLALCFPGTSLENIYSMMLTLI GQKLKDLGIMKNTQGK*CL/RR LLE/QYCPHHVGHYLGMDVHD TPDMPRSLPLQPGMVITIEPGIYI PEDDKDAPEKFRGLGVRIEDDV VVTQDSPLILSADCP

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22560	52928	A	22688	329	1389	RIWKTQMMRMKKMMMMMM MMMRITLFFQESQEAIFPFD LFPMCPFGCQCYSRVVHCSDLG LTSVPTNIPFDTRMLDLQNNKI KEIKENDFKGLTSLYGLILNNN KLTKIHPKAFLTTKLRLRLYS HNQLSEIPLNLPKSLAELRIHEN KVKKIQKDTFKGMNALHVLEM SANPL**/SMGIEPGAF*RG*RCS /YIRIAEAKLTSV\PKGL\PTLLE LHLDYNNKISTVELEDFKRYKEL QRLGLGNNKITDIENGLANIPR VR\EIHLGNIKLKKIPSGLPPELKY LQIIFLHSNSIARVGVNDFCPTV PKMKKSLYSAISLFNNPVKYWE MQPATFRCVLSRMSVQLGNFG
22561	52929	A	22689	1	4608	
22562	52930	A	22690	1	465	
22563	52931	A	22691	1	1542	
22564	52932	A	22692	1	4226	EAVLCSSRGRPDSSMPDCCRNA ALEARSCQSMTSLFSNTVSPTQ DGTSSLPRRQSSFAKPLRALY DLIAPMEGGVVESTEPLGTSR SGFASGTALFWLGDNGKAASP PGVSVSSLENNEDNTQCNRLAQ GYREAAVPDWTQDLALCLLPT LQSLKARTAPHLCVPSSCYKA WYTLAVSKVSGMVEGKAWIIL LLLAASTHALLQRPQEGDITPL AGSRAAAVSCQARPFSTFSGLM HSSGPVGRHRQLILVLE
22565	52933	A	22693	2	4197	ALDFPGRFRPTASFIWASVLFE TIRHEAEVSTDYKLSLFDLQTSS YQALQVRVLVSLGHHDEALAVA ERGRTRAFADLLVERQTGQQD SDPYSPVTIDQILEMVNGQRGL VLYYSLAAGYLYSWLLAPGAG IVKFHEHYLGENTVENSDFQA SSSVTLPTATGSALEQHIASVRE ALGVESHYSRACASSETESEAG DIMDQQFEEMNNKLNVSVDPT GFLRMVRRNNLFRSCQSMTS LFSNTVSPTQDGTSS
22566	52934	A	22694	1	618	
22567	52935	A	22695	1	3528	

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22568	52936	A	22696	85	1193	RPIEGQLGTCHPGSEPRTIRWRA PGKGLRLYTHPPTSDIAGRTGA AASFPAPLHLPREPRAGVDGTD AERILYPRRAAPAASGVGSRPA GEAVRADEAGAAGLGGFQSER NRSWGGESLGSRQPQKMPAFN RLFPLASLVLIY*VSVCFPVWGE VPLENGGRARANPMKLRISC MKREEVEATTVVVEWFYRPEGG KDFLIYEYRNGHQEVESPFQGR LQWNGSKDLQDVISITVLNVTL NDSGLYTCNVSRFEFEAHRPF VKTTTRLIPLRVTEEAGEDFTSV VSEIMMYILLVFLTLWLLIEMIY CYRQVSKAEAAQENAPGNSL EGGSQGLQINSTQDGLVTGQQ DVGSHRAREHMPDFEPPSAK
22569	52937	A	22697	277	527	VRVSWEIFCAPGPAGSPAGPG RGEKQRLGLLIRDARSPAPPG PPVGSVRG/PKPAPAGRVRAGK RRA*GAACSLAAGAWVEPGI

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22570	52938	A	22698	226	2268	SVKNTYTKCHVRNEQICNKLTSCKSCSLNLCQWDQRQQECQALPAHLCGEGWSHIGDACLRVNSSRENYDNAKLYCYNLSGNLASLTTSKEVEFVLDEIQKYTQQKVS PWVGLRKINISYWGWEDEMSPF TNTTLQWLPGEPNDSGFCAYLE RAAVAGLKANPCTSMANGLVCEKPVVSPNQNARPKCKPCSLRT SCSNCTSNMGECMWCSSTKRC VDSNAYIISFPYGCLEWQTAT CSPQNCSGLRTCGQCLEQPGCG WCNDPSNTGRGHCIEGSSRGPM KLIGMHHNEMVLDTNLCPKEK NYEWSFIQCPACQCNGHSTCIN NNVCEQCKNLTTGKQCQDCMP GYYGDPTNGGQCTACTCSGHA NICHLHTGKCFCTTKGIKGDQC QLCDSENRYVGNPLRGTCYYK TLIDYQFTFSLQEDDRHHTAI YFIVNPKQSNKNLHISINASNNF NLNITWPC*STAGTISGEETYIV SKNNILEYRDSFSYEKFNFRSNP NITFYVYVSNSFWPIKQIAFSQ HNTIMDLVQFFVTFSCFLSLLL EAAVVKIKQTCWASRRREQLLRERQQMASRPFASVDVALEV GAEQTEFLRGPLEGAPKPIAIEP CAGNRAAVLTVFLCLPRGSSGA PPPGQSGLAIASALIDISQQKAS DSKDKTSGVRNRKHLSTRQGT
22571	52939	B	22699	252	360	
22572	52940	A	22700	1	84	
22573	52941	A	22701	1	404	
22574	52942	A	22702	86	292	NPEMRCREFCLPSCRPELALE* G*SVRDVA*AQMCSVVWAGRP LGFAA*S*GSGHSCGRCSIWGE CWG
22575	52943	A	22703	82	379	HTLQPFISMGS�TKMFKVISEGPM MD*RPHPKVRPMT*HSTPAPAN FMGHFFWKIMICTDRTEVATLV AGVVSGASVGGKSPPYRKWNS PEPDVKGPRVL
22576	52944	A	22704	2	382	



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22577	52945	A	22705	1	479	HMPSGETAPLRIVDTGTGTGTV IAYAPTELGLHEMHIKYMASHI LESPLRFYVTTPTVPSVSA YGPG LVYGVAN/NTATFTIVTEDAGE GGDLAIEGPSKAEPRPRLSRA PGVDGAGASPGLGEDTGPQAP GLQVLTERIPGPSAPTPEFLSVG VSAVC
22578	52946	A	22706	1	590	
22579	52947	A	22707	171	406	
22580	52948	A	22708	269	2477	
22581	52949	B	22709	167	7472	
22582	52950	A	22710	1	520	
22583	52951	A	22711	2218	2472	
22584	52952	A	22712	722	1555	SRNWYEALNNTWGREDCVVD GWQSFRRQDYAFLQERGSGGD LWSSTLAQAMTLVESRHPRHQ ALSTQLLDAIMPYCGNTLRLGV TGTPGAGKSTFLEAFGMLLIRE GLKVAVIAVDPSSPVTGGSILG DKTRMNDLARAEEAFIRPVPS GHLGGASQRARELMLLCEAAG YDVVIVETVGVGQ\SETEVARM VDCFISLQIAGGADDLQGIKKG LMEVADLIVINKDDGDNHTNV AIARHM/YESALHILRRPPMHR VPRNPKVNLLPGTAMANLLS
22585	52953	B	22713	381	425	
22586	52954	A	22714	1	1185	
22587	52955	A	22715	1	3009	
22588	52956	A	22716	22	527	YEGIVMKPLIIVNPADCIGC\RT CEVACVVAHPSEQELNADVFL PRLKVQRLLDSISAPVMCHQCEN APCVGACPVGALTMGEQVVQT NSARCIGCQSCVSACPFGMITI SLPGDTRQQIVKCDLCEQR*EG PACVESCPTQALQLLIERELRRV RQQRIVVTGENPL
22589	52957	A	22717	187	325	

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22590	52958	A	22718	1	2240	MRSDPDTSVNEIETKLSALLGS ETTGEILFDLLCANGPEWNRHV TLEMKYGRIMLDATAKIIDEQDV PTHILSKLTFTLRNHPEGVVMK NFEVLQPLQNSLSGLPLWVSR ILQQINQLTHYEPVIGIMGKTGA GKSSLCNALFAGEVSPVSDVAA CTRDPLRFRLQIGEHFMTIVDLP GVGESGVRDTEYAALYREQLP RLDLILWLIKADDRALATDEHF YRQVIGEAYRHKMLEVISQSDK AEPTSGGNILSTEQKQNISRKIC LLHELFQPVHPVCAVSVRLHPV VALLQQFRDDETRHYHYDS QHRLVDYTRTQYEEPLVESRYL YDPLGRRVAKRVWRRERDLTG WMSLSRKPQVTWYGWDGDR TTIQNDRSRIQTIYQPGSFTPLIR VETATGELAKTQRRSLADALQ QSGGEDGGSVFPVPLVQMLD RLESEILADRVSEESRWLASC GLTVEQMQRNMDPTEGTTAW Y/AEYDEWGNLLNEENPHQLQ QLIRLPQQYDEESGLYYNRHR YYDPLQGRYITQDPIGLKGGW NFYQYPLNPISIDPLGLSMWE VARQMNAIASKLPEGFHIGINFS ASHIISPTFVDECLNFRDSFTRR DLNLVLEVTERDLLNVDESLVQ RLNILHENGFIALLDDFGTGYS GLSYLHDLHIDYIKIDHSFVGRV NADPESTRILDCVLDLARKLSIS

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22591	52959	A	22719	1	2301	MALTSGVHTGEKPYKCAQCEE AFSRKSELIIHQIHTGEKPYECT ECGKTFSRKSQLIIHQRTHTGEK PYKCTKCGKSFCQQSHLIGHQR IHTGEQPYLGLSVAERPKEYED DRALKMAAPCGNSSREQPCCFL NKASEDAERAKPPS*EPGRLRT P*VAQPH*VPHFMATWVRKHP VHDRQFRLHGQIRELNWDVVR PEQFTGVATNCSGITYPQGGWL CPAEITRNVLELAQQQGLQIYY QYQLQNLRSKDDCWLLNFAGD QQATHSVVVLANGHQISRFSQT STLPVYSVAGQVSHIPTTPELAE LKQVLCYDGYLTPQNPNQHH CIGASYHRGSEDATYSEDDQQQ NRQLIDCFPQAQWAKEVDVS DKEARCGVRCATRDHLPVGN VPDYEATLVEYASLAEQKDEA VSAPVFDDLFMFAALGSRGLCS APLCAEILAAQMSDEPIPMAS TLAALNPRLWVRKLLKGKAV KAG
22592	52960	A	22720	1021	1734	
22593	52961	A	22721	1247	2412	RRSHHAANLDIRIMPQTRQVT LPDPELHPDSTLSMWPD/NRIAR DAHLYRYDRHGRLTEKTDLIP EGVIRTDDETRHYHYDSQHRL VHYTRTQYEEPLVESRYLYDPL GRRVAKRVWRRERDLTGWMS LSRKPVQVTWYGWDGDRLLTIQ NDRTRIQTIIYQPGSFTPLIRVET ATGELAKTQRRSLADALQQSG GEDGGSVVFPVLVQMLDRLE SEILADRVSEESRRWLASCGLT VEQMKNQMDPVYTPARKIHL HCDHRGLPLALISKEGTTEWCA EYDEWGNLLNEENPHQLQQLI RLPGQQYDEESGLYYNRHRY DPLQGRYITQDPIGLKGGWNFY QYPLNPVTNTDPLGLEVFPRPFP LPIWPKSPAQQQQWYPTFCC
22594	52962	A	22722	1	4767	

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22595	52963	A	22723	668	1922	YPHADSPECWLSSSSER GKSSV TADLSRPRRLRPIPTCHGKPIAC TTTKAKNAFRPIAGASATGRLA NSPIIILPNAAIRQEFGITLDPEEV FTFQGVKLYEYRYFPDCVRSRN EAGILVEQILSTLFSVGEHFSK RAPFFKVPSLRSFYAFGGLTTG VVRNRNGNHGVNTPARKIHLHY CDHRGLPLALISKEGTTEWCAE YDEWGNLLNEENPHQLQLIR LPGQQYDEESGLYLYNRHRYD PLQGRYITQDPIGLKIGGWNFY QYPLNPVQYIDSMGLASKYGH LNNGGYGARPKNKPPTDPSKLP DIAKQLRLPYPIDQASSAHNVF KTFFRALSPYDYTLYCRKWVK PNLTCTPQDDSQYPGMDTKTA SDYLPQTN/WPVPSSIVSCTTGV VP*VVCQWVFAPPPDISHRTG
22596	52964	A	22724	25	510	RITDFGVKKIIRVGSCGAVLPHV KLRDV/VI/GMGAC/TDSKVNRI RFKGQAFGGIADFAMGRTAVD PGKALGINARVGNLVSADLFYS PDGEMFDVMEKYGILGVEMEA AGIYGVAAEFGAKALTICTVSD HIRTHEQTAAERQTTFNMIKI ALESVLLGDKE
22597	52965	A	22725	415	759	HRRRIVIDDTGIFRPRNTAQQLR QRPIAMSASGVVQIILEGHWRT HSLRNGFHRGFRL*SSPKVGMQ HGSRQVDHRTQRALRFFRQPGI DFLRPVFTPRRQRLAATNHFSR FVEH

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22598	52966	A	22726	2	2329	GTLPGCGAMHTCPSGPATHLV RRRIVRLPACVVTRANVPTPSR PVNATIGAFHSG*MASQGRRLS AQYPWSPFQYAARPVPTVPGR LVFTGTSKAPKISVMGPGMGIP SCSISAKELITDFGVKKIIRVGSC GAVLPHVKLRDVVIGMGACTD SKVTRIRFKDHAFAAIADFDMV RNAVDAAKALGIDARVGNLFS ADLFYSPDGEMFDVMEKYGIL GVEMEAAGIYGVAAEFGAKAL TICTVSDHIRTHEQTAAESQTT FNDMIKIALESVLLGDKEEDRVI RFGKARATRYALLRPYRGIERIP VWRVDDTGKAHKFADIRLCWP QGSCLDVAKAREVIRGSQPLPA WCENWAQEV DARLTKEAQA LRPVINLTGTVLHTNLGRALQA EAAVEAVAQAMRSPVTLEYDL DDAGRGRDRALAQLLCRITG AEDACIVNNNAAVLLMLAAT ASGKEVVVSRGELVEIGGAFRI PDVMRQAGCTLHEVGTTNRTH ANDYRQADFQFDDFVMAFTQN INGPTQNTALHGGHKRPDFLP LLGAFHGAIDILAPGGLHGYSL PSSFFHALALSAAFPGKRCKLS VHLPFWGLKDGGPLLTA PLGG ALVGIVGGVGGSNLTFPFHTNF LNVRFVIRRISHRHHHFYRIAKL LMNGAQGSNMLIAAVAGVPHQ NGHFPFTVADRFAIVLSEGSIRV
22599	52967	A	22727	1	702	
22600	52968	A	22728	876	1318	RCHLANASPAAGSHAPSPDSLS/ KIR/QEVG/PPLP/PLLAPLIATPP RTSQPLSPLISSSPSPSPVGG VSPFRETPVPPAMSPWPEDPRR ASPPDPSPSAASASERVVPSP LQFCAATPKHALPVPGRLLPPCA SGHAMPCWRAKIK

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22601	52969	A	22729	485	1455	PVVQRARNASSCQPFSTSVWAI PSISATSVPMCGATHSILSPKKS TVSDRIGSMQISFFPLSRSAEK* ESPCSSDAFHAIFSVLSGLALHS TTTSLCSSTSGQLVCC**TSLPPT TYGMIACAAPVE*SPRCPV*PPA SAI*RCNNVEALCSTPFERQP*E PAK\MPDHPHECVYVVG* PAPHPNSREQIHPAHECLAGFP VTQESLFAPLEIVPAYCCEPGRE PRSARSFPFAPRELT*VQLELGT GL*RETLDLVVSAGWA*ARRIS GAVTATPETGTLCQLDSGAECH YRETGVLELP*RSRPVGHGSSR HSRRWRT
22602	52970	A	22730	814	5001	PENSSHRPKPIIPMIASLTINANQ NSVSPYKRTFTRLTALMIKKKA AAQIHVGTSGNQYWRKLDENS PGGSSPVENSDCSTNSRFSFSPE NIIQNQDIVREAAVQGDGQKQ RQPQATDLDSSTHSEMLPAT EVTVSGGFSVEETSCGDTGRSG GEALAVANDSTSTPQANGLW KLKSTTPGGALPECFGTTDTTFS SAFCRKHGETQDTSQSSLPGL HCYTGIREGDDTEVESEAFSC SEGSEQQDAPD
22603	52971	A	22731	34	102	
22604	52972	A	22732	584	893	QKLLPNRMGHPVFVKSSQDPV LLSRIAWKDASTVTWVIEQDPV LRRRRRRTRRRRTRMRRRRGR* */SKRRRRMR/GRRGRR*CRRRRR RSSRSRPTRRQRNRNQV
22605	52973	A	22733	2	269	IGKLYWFMPPSANLALRELGIV LFLSVVGLKSGLSWIGYGALIT AVPLITVGILARMLAKMNYLT MCGMLAGSMTDPPA*PRFQTN DREEQHDPQLPQREVGAWRHK PVQLAD

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22606	52974	A	22734	3	958	RCYSLLSRAPHPGIYISIAERV/*I RLNSANFTLNSLLPAEKKLAEE FAVSRMTIRKAIDLLVAWGLV VRRHGSGTYLVRKDV LHQTAS LTGLGEVLKRQGKTVTSQVLIF EIMPAPPAIASQLRIQINEQIYFS RRVRFVIEGIPLMLEDSYMPVK LFRNLSLQHLEGSKFEYIEQECG ILIGGNYESLTPVLADRLLARQ MKVAEHTPLLRLTSLSYSESGEF LNYŠVMFRNATQIQGWRSHFR RLHPKKSLTVPPERAPPVFGGL IMRKNHSQRIDSGVRERRRTAG WMKIISKRQRRRIGHGTCQHPA HGQVIHFG
22607	52975	A	22735	2	285	GDEMTTSTLQKAIDLVTKATEE DKAKNYEEALRLYQHPVEYFL HA\K\YEAHSDKAKESIRAKCV QYLDRAEKLKDYLRSKEKHGK LCLKDRV
22608	52976	A	22736	545	791	
22609	52977	A	22737	249	1574	NHK AIDLVTKATEEDKAKNYE EALRLYQH AVEYFLHA\K\YEA HSDKAKESIRAKCVQYLYRAE KLKDYLRSKEKHGKPVKENQ SEGKGS DSDSEGDNPEKKKLQE QLMGAVVMEKPNIRWNDVAG LEGAKEALKEAVILPIKFPHLFT GKRTPWRG\LLFRPPGT\GNSN RPKAGAPKATNSTFFSVSSSDV KSKRLGETEKL V*NL FELARQ HK\PSIIFIDEVDSL CGSRNENES\ QAARRIQNGSSLVQIAGGLGIN NDGDSGFFGATNIP\WVLD\SAI R\RK V*KTKFYIPLPEKACPRPD VSRLHLGSTPHN\LRVATFHKL ARKTEGYSGADISIIVRDSLMQP VRKVQSATHFKKVCGPSRTNPS MMIDDLLTPCSPGDPRAMEMT WMDVPGDKLLEPVVCMDSML RSLATTRPTVNADDLLAKVKKF SEDFGQES
22610	52978	A	22738	52	567	
22611	52979	B	22739	1	1293	
22612	52980	A	22740	443	1027	
22613	52981	A	22741	2077	2430	
22614	52982	A	22742	1	504	

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22615	52983	A	22743	3244	3947	RNEITPFRAMMIIRMAHRFQT EEIKRISFIKRRVGNKDEINPGA RWRRFHDDGITFLRLDAGLTI PSGKTIVHPLARQRRGLVKIQFL R*LLAKLTRQPLLPLQPV TARL CLNPRLRRQRKIRMPAGTKWQ RLCPLIGDR*RHQRSAVYALS VRHNPVHHILRKNGDMYSFPIT IGNNVWIESHVVINPGVTIGDNS VIGAGSIVTKDIPPNVVAAGVP CRVILEINDRDK
22616	52984	A	22744	742	1158	
22617	52985	A	22745	439	2882	PDWQAFQSPFPASLIHPKPAK LPGWLCIVQWSLLAITRTPTPV RWAQQTETVGLVVGDVSDPF FGAMVKA VEQVAYHTGNFLLI GNGYHNEQKERQAIEQLIRHRC AALVVHAKMIPDADLASLMKQ MPADKQCESIPDQNNQTGTQY PRGKEPKLLRRLMHMNRKVGP RGPRRMLLRYLDVEFLSVALA VVHLGPQGTCSRLFLVARALV VAVSEMDKSLSAQAIYFASSN GPVPDLAYQVDFPRLEIGL*FE YVDTGAETTLVPGDVLVYPAG GWNFPQWQAPATTFSVLFGKQ QLGF/SAVVQWDGKQYQNLAK QHVARRGPRIGSFLQTLNEMQ MQPQEQQTARLIVASLLNHCR DLLGSQIQTASRSQALFEAIRDY IDERYASALTRESVAQAFYISPN YLSHLFQKTGAIGFNENLSHTR LGHA*TLLKGYDLKVKEVAHA CGFVDSNYFCRLFRKNTERSPS EYRRHRLHDNRICQFKTPTDN PENPDRLYLTFRRIDKETSSLPKK VAPSCKRLSVSRSSPKPSISIRRC MRLMLIEGRSSFIHPDKDVDG FHPYNVGRLCQRAPRLRPCTPR GIVTLLERYNIDTFGLNAV VIGA SNIVGRPMSMELLAGCTTTVT HRFTKNLRHHVENADLLIVAV GKPGFIPGDWIKEGAIVMMSGI NRGVATDASCFLVPFANRVSG
22618	52986	A	22746	2	126	
22619	52987	A	22747	1	465	
22620	52988	C	22748	78	308	



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22621	52989	A	22749	1	2797	MEHPPVLAVQRVALPSRSSEPE LFLNPPTDEETEAHRGMYLDQ GPRTKDWPVAPGVREPSPLGP GPSSLWLLVGGTVEEGSRKH RPTCKKDFTKSKTVDQAPTLC RHQMLNIQFLISDRDPQCNLHC SRTQPKPICASDGRSYESMCEY QRAKCRDPTLGVVHRGRCKDA GQSKCRLERAQALEQAKKPQE AVFVPECGEDGSFTQNTSCIHSS VYQIGENSSLTFLEKREESGHL QRDWFLWFPRKARVI
22622	52990	A	22750	1	5295	MNLNQEEIPDLPEKEFRRLVIKL IREGLEKGKAQCKEIQKMIQEV KREIFQEIESLKKKPKIQKTLDI LLKMQNALESLSDRTEQAEIN SELEDKVFKLTQSNKDKEKTR KYEQSLQEVWSYVKRPNLRIIG VPEEEENTKSLENILGGIIEENFP SFARDLDIQIPEAQRRTGKLI AKRSLLRHIVFRLSKVKMKERILR AVRQKHQATVSQKNKAGGITL PDFKLYYKATVSQKNKAGGITL PDFKLYYK
22623	52991	A	22751	1	891	GSPFEVMPRDDVFFIVDVKI*DI GVYSCTAQNSAGSISANATLTV LETSPFLRPLLDRTVTKGETAV LQCIAGGSPPPKLNWTKDDSP LVTERHFFAAGNQLLIIGDSDV SDAGKYTCEMSNTLGTGRGNV RLSVIPTPTCDSPQMTVL/HLLD DDGWGHCGLYVIIAVVCCVVG TSLVWVVIYHTRRRNEDCSITN TDETNPADIPSYLSSQGTADR QDGYVSSESGSHHQFVTSSGAG FFLPQHDSSTGCHIDNSSEADVE AATDLFLCPFLGSTGPYVFEGK CVWAQNP
22624	52992	A	22752	1	2947	MSAPSLRARAAGLGLLLCAVL GRAGRSDSGRGELGQPSGVA AERPCPTTCRCLGLDLDSCRKR LARLPEPLPSWVARLDLSHNRL SFIKASSMSHLQSLREVAGNRIV EILPEHLKEFQSLETLDLSSNNIS ELQTAFFPALQLKYLELNRNKIK NVDGLTFQGLGALKSLKMQRN GVTKLMDGAFWGLSNMEILQL DHNNLTEITKGWLYGLLMLQE LHLSQNAINRISPDAWEFCQKL SELDLTFNHL SRLDD
22625	52993	A	22753	2	417	

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22626	52994	A	22754	1	262	VLDIGS/SLTVPDEFKQE/RAD GMWWKQLVAGAVAGAVS/RT GTAPLDRLLKVFMMQIKRAILGQQ ETLMCRSASWLAPWLVPQPNH HLPYG
22627	52995	A	22755	1	762	
22628	52996	A	22756	1	1527	RLAAAGADPAGSRGGRGSREA PTEAARCRASPPPRAGAMRGSP GDAERRQRWGRLEELDSDND GRVDVHELRLQGLARLGGGNDP PGAQQGISSEGDADPNGLDLE EFSRYLQEREQRLLLMFHSLDR NQDGHIDVSEIQQSFRALGISIL LEQAEKNFAQA/VDRDGTMTID WQEWDRDHLLHSLNVEDVLY FWKHSTVLDIGECLTVPDEFK QEKLTMWWKQLAAGAVAG AVSRTGTVPDLRLKVFMMQVHA SKTNRLNILGGL*SMVLEGGIRS LWRGNGINVLKJAPESAIKFMA YEQIKRAIPGE*ETLPVLERFVA GSLAGATAQTIIYPMEVLKTRL TLRRTGQYKGLAGLRRGGILER EGPRAFYRGYLPNVLGIIPYAGI DLAVYETLKNWWLQQYSHDS ADPGILVLLACGTISSTCGQIAS YPLALVRTRMQAQASIEGGPKL SMLGLLRHILSQEGMRGLYRGI APNFMKVIPAVSISYVVENMK

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22629	52997	A	22757	1	2127	MDQSGLLALRAAVGAVVGSTL AVDIGILVKDWHPRPLGGKHC QLLGAFRRCRQHRRGKEERRGE TKEKKGERENERGKRRRIEGER DKYVKENEKQTCVQKERHSCT GNSPNHMATVQAERGALDSHG GWHPWDYCAVQQGRYHQLLL TKEEIEVQSRKKMCLLQAFLIC CQKSHFLPGCTRSMVPASASG ESLKLLPLMVEDEGEPTEREAR KREGERERGRERERRRRKRK RRRKRRRKRRRRRRRRG*EFLS LG*NERGKRRRIEGERDKYVKE NEKQTCVQKERHSCTGNSPNH MATVQAERGALDSHGGWHPW DYCAVQQGRYHQLLLTKEEIE VQRSKKMCLLQAFLICCQKSHF LPGCTRSMVPASASGESLKLL PLMVEDEGEPTEREQEEGGGE RERERERKKEKEKEKEKEKEK EKEKEKEEERIRVPLPRVELRLT NIAAKQVGNTILDVAAPADHPS ESSCVYVRFVIKIPVAASFRFKK SYVTNNVESCEDIHYFWKSH MHSENSCCKLPCPPHLPAAER LGDALEPLLPTMRRRQRCQNT GDCDGRRQIGTRETMRDTS VAVKTQVDSREGMGEVEPN CFWRDTHMASGVGAFFELPH DGTCDCEPDEAPGAEEVCREC GFCYCRRHAEHRQKFLSHHL AEYVHGSQAWTPPADGEGAGK
22630	52998	A	22758	348	881	WRQPRWPHHQAQLWQRAGSS YSQHKDPHFTSFSTPRAVQNFD GFPCPFLRETTTLVLIPSVPLTDP GSFYRAWSFQCGRSPRPLLGR TLSQKFLRLRGRPRRPYMSTL TPF*STRIFERAFCQVMGAESGG RIEKTTLCKRSLGPLMEPRV
22631	52999	A	22759	1	347	MVPASASGESLKLLPLMVEDER EPVTERE/REKGRGREGERERE KEREGERERERERGERKGERER RRG*QPPFHNRFSEGQGRSFLCS RRPRVSRRGHTSRGPARKAAE RRGLG
22632	53000	A	22760	145	258	PENGLIGLS*KIVLSLNIPVNN DMKVDEVLYEDSSTA

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22633	53001	A	22761	1	1479	MALKEIFCPVRETETCTINCGTR ISPSILHVGLPYPSTPNVKPERE GCGGGVSGNSKQPGALETAEI GKKEGRREEGSRPESASSLSLL SLAYDVKSAQICTRIHSSVPLE AVYPGYIHQSINQADLSALAPY DPCVCQIHKYHGAYNCLQYSV QNTLYSPTEQYKRCQAPWVL PAIFTIPASGAAASAVPVRAQA QGGQAAGQRRRLATAPLTGEG EPDHGDRTRAGSQGPEARPRIH LGAARGGDRTRGRPGRRGRDW TRLGREMAAAAVSSAKRSLRG ELKQRLRAMSAEERLRQSRVLS QKIVIAHSEYQKSKRISIFLSMQ DEIETEEIHKDVCQRGKVICFIPV RFSRAITMDMVRIGSPMEGNFFN FPKTSWEYSLRLGEGDVREEG LVPPGGL/EILILPCPQALGLDQ NHGQPRLGVRGQAYL*CLS*K RLFCSHSGKLKPPTPPGGWLFK EQICPPRSPVNENDMKVDEVL
22634	53002	A	22762	1	813	
22635	53003	A	22763	1	368	
22636	53004	A	22764	327	4281	SASASRCDPGSGSRREEREELQ WRRRRRRRRRRRRRRRQRQRA AAPAAPAGGIEAVNMAASASYHI SNLLEKMTSSDKDFRFRMATND LMTLQKDSIKLDDDSERKVV KMILKLLEDKNGEVQNLAVKC LGPLVSKVKEYQVETIVDTLCT NMLSDKEQLRDISSIGLKTVICE LPPASSGSALAANVCKKITGRL TSAIAKQEDVSVQLEALDIMAD MLSRQGGLLVNFHPSILTCLLP QLTSPRLAVRKRTIIA
22637	53005	A	22765	2	271	
22638	53006	A	22766	299	451	IVALFRSLVRHLRGTMAVESTA TAAVAAEL/VSADKIEDAPAPST SADKVES

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22639	53007	A	22767	1	1122	MATESTATAAIAELVSANKIE DVPAPSTSADKVERIENGVLGN TLDGVHVEEEEGEKTEDESLVE NNDSIDEEARKELREQVYDSM GEKEEAKKTEDKSFAPETDKE QDCEMEKGGREDMDISESAEEP QEKVDLTGLWLTEISEGAKGG GAPEGPNEAEVTSGKPEQEVDP VEEEKSVSETDVQKECREKGG WEKHREIVISIEEKPKEVSEEQP VVILEKQGTAVEVA AESLDPTV KPV DVGGDEPEEK/GTVPGSLR PSPCRDPLPAGLGLWVQLSV** GSGTVQQIY*SH*EENGCTKRA GEGG*RIVC*IQERN*GTEGTAT RNYRKDRRCKGVSDYWECS*T GSESYSGGELYFRFHS*WRRLF
22640	53008	A	22768	223	339	
22641	53009	B	22769	341	496	
22642	53010	A	22770	12	1099	VSGVPNCLFFSQALFRSLVRHL RGT MAMESTATAA VAAELVSA DKIEDVPAPSTSADKVESLDV DSEAKKLLGLGQK\HLMGDIP AAVNAFQEAASLLGKKYGETA NECGEAFFFYG\KSLLELARME NGVLGNA\LEGVHVEEEEGEKT EDESLENNDNI/D*N*RLGRG* *RK**D*RNAK*FSP*KQVSSRK *GGGDWEPRACLG YAGFSKDH F*KARNKRSTALCCPGTS*TRRS *C*I*KLCASC\GGVPVLP*PTGP VPGSPRPSPCRDPLPAGLGLWV QLSV**GSGTVQQIY*SH*EQNG CTKRAGEGG*RIVC*IQERN*GT KGTATRN*REDRRCKGVSA*W ECS*TGSESYS

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22643	53011	A	22771	11	2485	VSGVPNCLEFFSQALFRSLVRHL RGTMAESTATAA VAADVVS ADKIEDVPAPSTSADKVESLDV DSEAKKLLGLGQKHLVMGGIP AAV\NAFQGAASLLGKKYGET ANE\CGEAFFFYGKSLLELARM ENGVLGNALEGVHVEEEEGVEK TEDESLVENNDM\IDEAREELR EQVYDAMGEKEEAKKTEDKSL AKPETDKEQDSEMEKGGREDM DISKSAEEPQEKVDLTLDWLTE TSEEAKGGAPEGPNEAEVTSG KPGQ\EVPDAEEKSVSGTDVQ EECREKGGQEKQGEVIVSIEEK PKEVSEEQPVVTLKQGTAVEV EAESLDPTVKPVDVGGDEPEEK VVTSENEAGKAVLEQLVGQEV PPAEESPEVQTEAAEASAVEAG SEVSEKPGQEAPVLPKDGAVN GPSVVGDTPIEPQTSIERLTET KDGSGLLEKVRAKLVPSQEETK LSVEESEAAAGDGVDTKVAQGA TEKSPEDKVQIAANEETQEREE QMKEGEETEGSEEDDKENDKT EEMPNDSVLENKSLQENEEEEEI GNLELA WMDLDAKIIIFKRQET KEAQLYAAQAHLKLGEVSVES ENYVQAVEEFQSCNLQEQL EAHDRLLAETHYQLGLAYGYN SQYDEAVAQFSKSIEVIENRMA VLNEQVKEAEGSSAEYKKEIEE LKELLPEIREKIEENAKESQR\SG
22644	53012	A	22772	52	161	FQNPTGLY/CDTEYNRLQKQQ TEKTKQKKTQFHPICN
22645	53013	A	22773	3	115	FFQNPTGLY/CDTEYNRLQKQQ TEKTKQKKTQFHPICN
22646	53014	A	22774	229	358	
22647	53015	A	22775	257	386	
22648	53016	A	22776	259	294	
22649	53017	A	22777	217	398	KA WVNLLRKSEPKSCGS*GGL STSRERLVECSSPLGLGYCG**L CHLQEPHYGSLHRMSS
22650	53018	A	22778	1	3386	

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22651	53019	A	22779	391	2100	SRRTAGVRLDILCKDPIMWVSA DGHSYQPQYPKAKRATEFHFF NFKALLARA AVGAARGIHIHRC GLTKRPDARRRRVAGA QGREP AISLPGDRAAGARATRTRGPGP APKMPAIAVLAAAAAA\WCFL QVESRHLDALAGGAGPNHG\NF L\DNQ\WLSTVSQYDRDKY\W NRFRDEVEDDYFRNWNPNKPF DQAL\DP SKDPCLKVKCSPHK\A CVTQ\DYQTAL\CVSRKHLLPR QKEWGTWAQKHWGLDL*ILV KICKPCSRGRSSAMGLAGSDGP LLTAFQVANLEFHACSTGQK/S FATLCDG\PCPCSSQSLEPPKHK GRKGV PCTDKELRNLASRLKD WFGALHEDANRVIKPTSSNTAQ GRFDTSILPICKDSL GWMFNKL DMNYDLLLDPSEINAIYLDKYE PCIKPLFN SCDSFKDGKPF LNNE WCLLP SQNPGGLP/CAQ NEMNR IQ\KLSKGKSL LGAFIPRCNEEG YYKATQCHGSTGQCWCVDKY GNELAGSRKQGA VSCEEEQETS GDFGSGGSVLLDDLEYERELG PKDKEGKLRVHTRAVTEDDED EDDDKEDEVGYIW
22652	53020	A	22780	2	441	HGVQGAGCGEVA AVSIELGAG GPVWRAAPRAC SRLQLLRGFG LEGQWFGESCCRRGAS*EGSTR *PPRRQPWPEWVMSWVPET REPARISPAPAKQN*PPPAPKSP AAPA\QA AVAATPSPPGEISEA WDSLESFSKPAFFSQ
22653	53021	A	22781	3	121	

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22654	53022	A	22782	2	1488	FVNNMADGEEPEKRRRIEELL AEKMAVDGGCGDTETWKDR\ WNHVKK\FLERSGPFTHPDFEP\ STESLQFLLDTC\VLVIGAGG\ LGCELLKNLALSIGFRQIHVID\ MDT\DVSN*IRQFLFRPKDIGR PKAEVAAEFLNDRV\PNC\NVV PHFNK\IQDFM\DTFYRQFHIV CGTGTLSCARRWINGMLISL\LN YERMVS*DPSSIVPLID\GGTEGF KENARVIL\PGMTACIECTLEL YPPQVNFPMCTIASMPRLPEHCI EYVGMLQWPKEQPFGEIVPL DGDDP\EHIQWIFQKSLERASQY NIRGVTYRLTQGVVKRIIPAVA STNAVIAAVCAT*/EVFKIATSA YIPL*IITWVFNDV\DGLYTYTFE GRKGK\ENCPACISQLPQNISVF LHQAKLQEVLGIL\TNSASLQN EILPAITATLGGEKIGTLYLQSV TSNEERNRANFFQTIERNWGLL DGPKTGRLLDV\TTP\QTVLFQTS ILLKKGKSPT
22655	53023	A	22783	1	1719	
22656	53024	B	22784	199	460	
22657	53025	A	22785	226	1620	NGSGLALATGNRDPGLCPLSAP SCPWR*KSAGASTQQA\SSQSQ /HPAYHRITPTL\TNFALRLYKEL AADAPGNIFFSPVSISITTLCLLC LGVAQANNSALILEGLGFNL\TET PEADIHQGFRSLLHTLVLPSPKL ELKVGNLFLDKRLKPRQHYFD SIKELYRAFAFSAHFTDSVTTGR QINDYL*RRTYWPGVDLPFRS/L ARDTFMVLA\NFILFSKAKVKA TLSSRVPDPKSRPVFLVDERTSF QVPMMHQKEMHRLYDQDLA CTVLQIEYRGNALALLVLPDPG KMKQVEAALQPQTLRKWGQL LLPSLLDLHLPRFSISGTYNLEDI LSPNWFSPITYTLNKITSLSQSVG G*LNKSISKVSHKSMVDMNEK GDQRPGLLQASSPSHL*/YTMS DPHAHFNRPFLLLLWEVTTQSL LFLGKVVPVWVWMTMVGGE LSYLILDQTDREPEACILGLLCG
22658	53026	A	22786	64	288	
22659	53027	A	22787	1	1923	



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22660	53028	A	22788	309	2286	CAVCHISFQDTPVLVSSNVTMQ FGSKPLFENISVKFGGGNRYGLA IGANGSGKSTFMKILGGDLEPT LGNGSLDPNERVIGKLRQ\DQFA FEEFTVLDTVIMGHKEL\WKVK QERDRIYALPEMSEEDGYKVA DLEVKYGEMAGYSAEARAGEL LLGVGIPVEQHYGPMSEVAPG WKLRLVLLAQALFADPDILLDE PTNNLDIDTIRWLEQVLNENNS TMIHSHDRHFLNMVCTHMA LDYGELRVYPGNYDEYMTAAT QARERLLADNAKKKAQIAELQ SFIDKIKLEEVKASSRQNPFI RFEQDKKLFRNALEVEGLTKGFDN GPLFKNLNLLLEVGEKLAVLGT NGVGKSTL\KTLVGNLQPD SGTVKWSENARIGYYAQDHE YEFENDLPVFEWMSQCKQ*GD DEQAVRSIFGRLLFSQDV IKKPAKVL SAPFCKDSILE AIDAGIKLIITITEGIPT LDMLTVKVKLDEAGVRMI GPNCPGVITPGECKIGIQ PGHIHKPGTGELNITTGG IVKARDTQIALNDKSKGD VRVDGQNSLLETFNMY VGTS GTGLTLTNNGTLN VEGGEVYLGVFEP AVGTLNIGA AHGEAAAD AGFITNATKVEFG LGEGVFVFNHTNNS DAGYQVDM LITGDDK DGKVIHDARHTVF
22661	53029	A	22789	1	553	
22662	53030	A	22790	1633	2207	ILFFDKGMPAQTPSLQKRWEK M*LVLW*GDREGIKAI/ISEESW GARAPIFLLR/MMEDQGLYSIR MGGARGLPGKSLAL*GAGR GFYSGERTWTLSPSGNCAPYQR GGWWYHACA\HSNLNGVWHH GGHYRSRYQDGVYWA EFRGGAYSLRKAAMP HLAPEAVTLC SGFGPLGPRG HWSAGAPSCSGHTFF
22663	53031	A	22791	34	210	AAADPLRHLRRGAFIKAGRHA G/PSLPVCLQATA\H*MDLARLA LVLVVRTSASTKSSTRE

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22664	53032	A	22792	397	1168	LLSRISKVSSKLPVRGGAGSLCT GDQRK\RRKFLAETVELQISLKN YDPQEGQSAFSGHPSRL*VPSP PLSSLVCVLGGPSKHL*RRLRP VGYPPTMDIEGA*KKLNQELKN LVKKAGPRKYDCVFWPQESLD SSKIPPNPSPGPGFK*RAGKVPFP CLTHNGKHGLAQSGIEVEVPT/ LSFQMCKGVYVWAVAVWSRE R*QTNELVYNHLACQLSWVSL LKEKNWQ\NVPGPYIHKSTMGQ SPSSHILRHIRINSITS
22665	53033	A	22793	1	377	SVSRVPTRSLRTSTWRLAQDQT QDTQLITVDEKLDITTLTGVP EEHIKTRKVRJFVPARNNMQSGVN NTKKWKMEFDTREWRWENPLM GWAST\WSYDIEERKVPKPKSK SYGANFWSWNRKTRVSTK
22666	53034	A	22794	183	368	
22667	53035	A	22795	3	623	ILAFACSKMAAVSMS\VLQRQT LWRRRAVAVAALSVSRVPT/R RSLRTSTWR\LAH\DQTQDTQLI TS**KIGISLTFNWPFP EEHIKNLEKSGIFVPCSPITCQSGVNNTK\ KWK\MEFDTREWRWENPLMG\ WASTGLIPLSNMVLNLPVLKE DAVSFAEKNGWELWTLEERK\ VPKPKSQVFMGANFS\WNRKTR VSTKIGLALTISPA
22668	53036	A	22796	1	798	MNKVNPTQQDKEDHPELIITSIG DKRQLTLEAASGVCHRGTQTR VKEESKKFLISMSFRGGKPVHK VVERACVCTCLHHTSVPATHN TQRRHTTPTTRKNGRKR RGKKEREKRKDREHNTGRRTKR KKT RNIGGQRTQQKQKQSEDKARR EPGGGRKQGRGREDGTRQRRG GRTRNREEGAQRGRNGR/RGEG RRTTEEETHMA*APDITATQQTE QQGHGTRQRDITLRRHTAEDA QPSEHASADQAHTKKTE*SVSR TNGQYLLT
22669	53037	B	22797	85	322	

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22670	53038	A	22798	165	4733	AATALLTHGQEEGQVEGQDED IPPITCVQNGLRYHDRVWKPE PCRICVCDNGKVLCDDEVICDET KNCPGAEVPEGECCPVCPDGSR VTHRPKKPPGVEGPKGDTGPPR PKGTPGPPGRDGIPOGQPLGPG PGPPGPPGPPGLGGKLLLPKLSY GYDEKSTGGISVPGMPGSPGR GLPGPPGAPVSIQDVFIPLLGLW SFGGKTGMRAGEMLRDLLGPQ GFQGPPEGPEPGASGPMGPRG PPGPPKNGDDG
22671	53039	C	22799	88	392	
22672	53040	A	22800	37	293	
22673	53041	A	22801	55	1917	GGGGVRRRRGTRRSEPGDSRSA MAPIGLKAVVGEKIMHDVIKK VKKKGEWKVLVVDQLSMRML SSCKMTDIMTEGITIVEDINKR REPLPSLEAVYLITPSEKSVHSLI SDFKDPPTAKYRAAHVFFTDSC PDALFNELVKSRAAKVIKTLTEI NIAFLPYESQVYSLDSADSFQSF YSPHKAQMKNPILERLAEQIAT LCATLKEYPAVRYRGEYKDN ALLAQLIQDKLDAYKADDPTM GEGPDKARSQLLILDRGFDPPSP VLP*I*LFQGMSY*SCLPIENDV YKYETSGIGGGHGVKGGASGT EDDDLWIALRHKHIAEVVSQVE VTRSLKDFSSSKRMNTGEKTT MRDLSQMLKKMPQYQKELSK YSTHLHLAEDCMKHYQGTVDK LCRVEQDLAMGTDAEGEKIKD PMRAIVPILLDANVSTYDKIRIIL LYIFLKNIGITEENLNKLIQHAQI PPEDSEIITNMAHLGVPIVTDST LRRRSKPERKERISEQTYQLSR WTPHDKDIMEDTIEDKLDNKVHY PYISTRSSASFSTTAVSARYGH WP*GTRPPGEYRSGP/RVFIIFHP LGGVSLNEMRCALRR*PRANG KWGGA**GSTHILQPHRNLPGH

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22674	53042	A	22802	46	1931	GGGGVRMLCGTRRSEPGDSRS AMAPIGLIAVVGEKIMHDVML NDLNMGEWKALLVDQLSMRM LSYCCCLMTDIMTEGITIVEDINK RR*PLPSLEAVYLITPSEKSVHS LISDFKDPPTAKYRAAHVFFTD SCPDALFNELVKSRAAKVIKTL TEINIAFLPYESRVYSLDSADSF QSFYSPHKAQMKNPILERLAEQ IATLCATLKEYPAVRYRGEYKD NALLAQLIQDKLDAYKADDET MGEGPDKARSQLLILDRGFDPS SPVLHELTFQAMSYDLLPIEND VYKYETSGIGEARVKEVLLDED DDLWIALRHKHIAEVSQEVTRS LKDFSSSKRMNTGEKTTMRDL SQMLKKMPQYQKELSKYSTHL APCLRTCMKHYQGTVDKL\CR VEQDLAMGVTDAEGAEKIKDP MRAIVPILLDANVQTY*QIRIILL YIFLKNGITEENLNKLIQHAQIP PEDSEIITNMAHLGVPIVTDSTL RRRSKPERKERISEQTYQLSRW TPIIKDIMEDTIEDKLDTKHYPYI STRSSASFSTTAVSARYGHWK NKAPGEYRSGPRLIIFILGGVSL NEMRCAYEVTQANGKWEVLIG STHILTPTKFLMDLRHPDFRESS RVSFEDQAPTME
22675	53043	A	22803	2	51	
22676	53044	A	22804	236	451	LHLPLFLGAIRSGQYGLWNLFR VLGWTCSLGIYLGWRVS*NFG RGTKALKVLSTIS/E*RNHHCHP *NNIFVY

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
22677	53045	A	22805	3	1173	GAGAPAAGQAGLTSTSAVRAR PVSPARQSQDPAASLSLHLSLPP APGAGCARWRRRGPOAAMAA GAGAGSAPRWLRALSEPLSAA QLRRLEEHRYSAAAGVSLLEPPL QLYWTWLLQWIPLWMA PNSIT LLGLAVNVVTTLVLISYCLTAT EEAPYWTYLLCALGLFIYQPLD AIDGKQARRTNSCSPLGELFDH GCDSLSTVFMAVGASIAARLGT YPDWFFSRSFYLGCLVFYCAH WQTYVS\GMLRFGKVDVTEIQI ALVIVFVL\SAFG\GATM/WGD YTIPILEIKLKILPVLGFLGGVIFS CS\NYSHVILH\GGVGKNG\STIA GTSVLSPGTPH/MGLIIILA IMIY *KVRQLMF*KSIPCL*YPQCLG CVFAKVSQKISGSSHDQK
22678	53046	A	22806	2	1091	CPGRRRRRRPGRSRARATALPT PGPRKRGGPAGRKRRERPERCSS SSGGSSSSGDEDGLELDGAPGR GKRAAQPVAAGKVGGA AVVV AEPEHTKKHVKLETLITTEGK LWSWGRNEKAQLGHGDTKRV EAPRLTEGLSHEVIVC\TCARNH TLALTETGSVF AFGENKMGQL GLGN*TD AVPSPVQIMYNSLPIT KMA/CGYGWLGYTEQKDEM V PRLVKLFD FPGHGASQIYAGYT CSFAVSEVGGLFFWGATNTSHE STMPKAVQDLCSWRIWSLAC GKSSIIVA ADESTISWGPSPTFG ELGYRDHKPKSSTAAQEVKTL HGIFSEPVAMGYSHSLVIARDE SETEKEKIKKLPEYSPQTL

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22679	53047	A	22807	1	1409	MSLGLASERLWAGLGLPALPL ADEGGECGETLFVWRSQKLEG SKCKGQLLIFGATNWDLIGRKE VPKQQAAYRNLGQNLWGPHR YGCLAGVRVRTVVS GSAAHS LLITTEGKLWSWGRNEKGQLG HGDTKRVEAPRLIEGLSHEVIVS AACGRNHTLALTETGSVFAFGE NKMGGQLGLGNQTDAPVSPAQI MYNGQPITKMACGAEFMSMIMG LQRKPLFLWGALNMGQLGTQL RMGKFHSPGAQRIEYDCELVPR RVAIFIEKTKDGQILPVPNVVVR DVACGANHTLVLDSQKRVFSW GFGGYGRLGHAEQKDEMVPRL VKLDFDPGRGASQI/SCWL/HTC SLCCQ*NGWSVFLGGHQHLP*I YHVPQKQCRTSAAGESGTLAC GKSSIIVAADESTISWGSPSTFG ELGYGDHKKPSSTA AQEVKTL DGIFSEQVAMGYSHSLVIARDE SETEKEKIKKLPEYNPRTL
22680	53048	C	22808	277	518	
22681	53049	A	22809	2	192	
22682	53050	A	22810	1	2946	MAEAGLRGWLLWALLRLAQ SEPYTTIHQPGYCAFYDECGKN PELSGSLMTLSNVSCLSNTPAR KITGDHLILLQKICPRLYTGPNT QACCSAKQLVSLEASLSITKAL LTRCPACSDNFVNLHCHNTCSP NQSLFINVTRVAQLGAGQLPAV VAYEAFYQHSFAEQSYDSCSRV RVPA AATLAVGTMCGVYGSAL CNAQRWLNFGQDTGNGLAPLD ITFHLLEPGQAVGSGIQPLNEGV ARCNESQGDDVATCS
22683	53051	A	22811	258	362	
22684	53052	A	22812	1	4038	MAEAGLRGWLLWALLRLAQ SEPYTTIHQPGYCAFYDECGKN PELSGSLMTLSNVSCLSNTPAR KITGDHLILLQKICPRLYTGPNT QACCSAKQLVSLEASLSITKAL LTRCPACSDNFVNLHCHNTCSP NQSLFINVTRVAQLGAGQLPAV VAYEAFYQHSFAEQSYDSCSRV RVPA AATLAVGTMCGVYGSAL CNAQRWLNFGQDTGNGLAPLD ITFHLLEPGQAVGSGIQPLNEGV ARCNESQGDDVATCS

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22685	53053	A	22813	198	380	ASSESDSTPCR*MAYSWPPNSN SSHCIKELPLFMGKIPAAS*DGG PQGLAIFPPGVIVGI
22686	53054	A	22814	1	154	
22687	53055	A	22815	35	486	PARRGRDEC*VLAPFRATRPPS RRTR*SKATYPTPSNDQTRTIRT SRERASMPRSAEPKRPTIPRLHP SPRGIVTVSS/RPRSHALPVSHIH SCHSRTAISDNQVPAFLQVYGE EVRKRAGEVTQAITGFPRYRLF FKMLRCHRSIQVTAST
22688	53056	A	22816	212	365	RCRSGPAPRSAPGARPASPPPA AGTCR*RPAGHCPAGAAGLLSL CPRCST
22689	53057	A	22817	293	618	QQNPTNCLPPASR*SKT*RARST AGPTRPHLHHPAAPAGSPACA GEGRLQR/HSPNPLYFNWKKQR FAAKPHFRRPQSSLNPQQWLLA GLLQEESSSLGTDAPLHSLG
22690	53058	A	22818	3	1129	FCLDDLSSAINEHLSARGRRRRS IVKVSLHPAIVGLKSKFLKKPD QLRKLFVIGGLSFETTTDESLRSHF EQ\WGTLTDCVVMRDPNTKRS RG\FGFVTYATVEEVDAAMNA RPHKVD\GRV\VEPKRAVSREDS QRPGA\HLTVKKIFVGGIKEDT EEHHLRDYFEEIILNSMGKLEV VEIH*LDR\GQWPRKRGFAFVT FDGHDSVDKIVIQKYHTVNG\H NCEVRKALSQEMASASS\SQR G\RVGSGNFWCGRT\NGFGGND NFG\RGGNFWSVVAFGG\SRG GVWIWVAVGDGYNGFG\NDGS HFG\GGGSYNDFGDFHNQSSK FWTP*RGGNLGGQKLWPPMGG GG\QYFAKPTKPKVAYGRFPAA ASSYGKWPEDFN
22691	53059	A	22819	1	568	MGKMSPGHVRDFHGSCHHNRP GGPGGKSGFMGQALGPG/GCV QPRDLVLCVSATPAMAERGQC GAQAVASEGGSPPRWQLPCGV EPADFRRYMETPGCPGRNL/PA GAGPL*RTSAGAVWKGNRSE SP/PQSLYWGTASGAVRRGPPSS RNQNGRSTDSLHCPMGKDTQP NP*KQPGGRLHPAKPQGRSCP
22692	53060	A	22820	232	389	

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22693	53061	A	22821	3	401	VGVCEKRGAPG\PP LAPGPARG PVAAA VPP/GPGASRARP*DAA AAAGGRGPPEQ*T*KAWGLHP GTGSL/RGHPAPM*PLLRAFPRS PLHPLPPHPLPRRAA\SNPGTS KCRTAAGTRQWGGRRQSQLQRC QCLR
22694	53062	A	22822	1	410	MGKMSPGHVRDFHGRPSHHRP RGP GGS GFVGVK VQGP HAVCS LGTWCLVSQPLHP\G*KGPMYS SGVASEGGSPKPWQLPRGVEP MGAQKS RTEVWEPLPRFQKIY GNTWMPRI PMCCARDPGGAKG GCSNPSQRR
22695	53063	A	22823	264	979	GPRHADPANFSARNLSRP*DAP GRVQDPRPQAPQL\PPGLGAPSR VRRPPRRPVDR TLPGGPRPPA AAA\GPTGGRGS\PRAGGTAAA TGPRAGPGARGAAGSAPFLTDP NM\GRPPPPATTTTPGAATAPGP REEAPGKFRVSPGPSGAGGPP TRASPTPTAAGGGGGDSEGE GP ILLVADAG\PDSARSPPGLPGCV LSAAPRSRRDPDAVGGLAASA AARRLNTTWKLPQLGASTL
22696	53064	A	22824	271	426	
22697	53065	A	22825	546	1296	KMVDCLANSEANTRRISIVENC FGAAGQPLTIPGRVLIGEVLT KL\CRKKPKARQFFLRNDIVV* GNIVIQKKKYIKQHIIPLENVTID SIKDEGDLRNGWVIKTPTKSFA VYAATATEKSEWMNHINKCVT DLLSKSGKTPSNEHA AVWVPD SEATVCMRCQKAKFTPVNRRH HCRKCGFVVCGPCSEKRFLPS QSSKPVRICDFCYDLLSAGDMA TCQPARSDSYSQSLKSPLNDMS DDDDDDDMQ
22698	53066	A	22826	1219	2370	
22699	53067	A	22827	164	601	DRTNIMVGYHQTNQKTDGKT PTRRPVLVDH\NRLPEGSRGRL AVAVAGDHPAAVQVTMTLVN DTGFDPVFSGSIAESWGQHS GT PSYC*DWEAATMLRAFPLAKK GETKDLRQFPNIDNAYMELGT NRADAVLHDTPNILYFMQF
22700	53068	A	22828	2	91	